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LONDON, SATURDAY, JUNE 2, 1883.

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From the "HARDWARE TRADE JOURNAL."

A MODERN PLATING ESTABLISHMENT.

"Mr. WILLIAM ELMORE, of 91, Blackfriars Road, London, S.E., is busily engaged fitting up the Art Metal Depositing Works of the Electrolytic Company, Charlotte Street, Blackfriars. The Electro-plating tanks of nickel, copper, brass, zinc, and tin, holding several thousands of gallons each (worked by an 'Elmore' Patent Dynamo-Electric Machine, capable of depositing about 500 lbs. of metal per day), and the specially designed and constructed polishing machinery will all combine to constitute this most gigantic and complete arrangement of the kind in the world. Here bolier tubes, each over 20 ft. in length, may be coated with copper, large ornamental iron lamp posts, and similar massive iron structural objects of great weight may be covered with electro-deposited copper, forming, when finished, a complete shell of bronze, which may be nickel-plated, or even silver-plated, if desired, Large rough or polished iron surfaces, may be coated with brass, or zinc, or tin. Copper electrotype copies are taken of art subjects, the reproduction being so perfect that the process is used for multiplying plates from which bank-notes are printed, and the most delicate ferns, flowers, leaves, and insects are coated with copper, and afterwards with gold, sliver, nickel, &c., for use as ornaments of various kinds. Penders, fire-irons, grates, &c., may be brassed. The largest marine engines may be nickel-plated in the large nickel-plating plant, worked by the powerful 'Elimore' inachine with ease and certainty, which only a few months since would have been pronounced almost impossible. The Electrolytic Company, we understand, express perfect satisfaction with the work already completed by Mr. Elimore and there is no doubt that with that gentle man's large practical experience the company could not have been in better hands. The entire premises will be lighted by the 'Elmore' system of electric light."

"The new 'Elmore' Denoration of the London Minning Journal."

"The new 'Eimore' Dynamo-Electric Machine can be s.en in operation in London, and is considered one of the most wonderful scientific apparatus which has yet been brought before the public; it should be inspected by all who are interested in any kind of metallurgical operations."

Ordnance Department—
SIR W. G. ARMSTRONG, MITCHELL, AND CO. (LIMITED),
OF NEWGASTLE-ON-TYNE.
Extra from their letter of 25th April, 1883, in reference to some hydraulic rams which the "Electrolytic Comany" coated with a considerable thickness of copper—
"The coating of the rams was perfect with the exception that the first one was rather thinner than intended; all
of them, however, answered their purpose perfectly."

From the NICKEL PLATING COMPANY,

Your Machine does its work most satisfactorily, and has never once reversed current,
which the Weston Machine frequently did."

From the ELECTROLYTIC COMPANY,

ART METAL DEPOSITING WORKS, CHARLOTTE STREET, BLACKFRIARS, LONDON.

"The 'Elmore' Dynamo-Electric Machine and entire outfit which you have supplied to this company have given perfect satisfaction."

From the NICKEL AND SILVER PLATING WORKS,

2, CHARLES STREET, CURTAIN ROAD, E.C. "Having had one of the 'Elmore' Patent Dynamo-Electric Machines in constant use for several months, it gives me great pleasure to say that with it I have been able to deposit four times the weight of metal per day which I had been enabled to do with the Dynamo-Electric Machine, which it has displaced in my establishment."

From the LONDON NICKEL PLATING COMPANY.

"We have much pleasure in expressing our entire satisfaction with the nickel-plating solution, andes, and Dynamo Machine that you have supplied us with.

From the DYNAMO-ELECTRIC PLATING WORKS. 2. OLD SWAN LANE, LONDON

The quality of the nicke solutions and anodes at thes ere supplied by you, is most satisfac-excellently, and has given no trouble AND MANY OTHERS.

Dynamo-Electric Machines, Outfits, &c., supplied to Her Majesty's Government—several Departments. Messrs. Williams, Foster, and Co., Swansea. The India Rubber and Gutta Percha, and Telegraph Works Company (Limited). Messrs. H. H. Vivian and Co. (Limited). Messrs. Thomas De la Rue and Co. Messrs. John Lysaght (Limited) Bristol. Messrs. Waterlow and Sons (Limited). The Singer Manufacturing Company (Limited). Messrs. Cassell, Petter, and Galpin. Messrs. William Clowes and Sons (Limited). Messrs. Kelly and Co. Messrs. Christopher Baker and Sons, Birmingham. Messrs. Wright and Butler, Birmingham. Messrs. John Grinsell and Sons, Birmingham. Messrs. A. S. Cattell and Co. Messrs. Best and Lloyd, Birmingham. The Electro Amalgamator Company (Limited). Messrs. William Impy and Co. And numerous others.

Meetings of Public Companies,

DEVON GREAT CONSOLS COMPANY.

The half-yearly general meeting of shareholders was held at the offices of the company, Austin Friars, on Tuesday,
Mr. Peter Watson (Managing Director) in the chair.
Mr. W. H. Allen (the secretary) read the notice convening the meeting, and the report of the directors and statement of accounts

The directors report that the accounts submitted show sales of copper ore for the six months from Oct. 31 to April 30 (inclusive), amounting to 5671 tons 6 cwts., which realised 13,3311. 15s. 4d., or amounting to 5671 tons 6 cwts., which realised 13,3311. 15s. 4d., or an average price of 2l. 6s. 8d per ton, being an improvement in the quality of the ore as compared with the two previous half-years. The accounts of the reduction-works show that the receipts for arsenic amounted to 10,818l. 15s. The directors informed the share-holders in January last that they had entered into a contract for the sale of arsenic amounting to about 25,000l. The total amount of expenditure for the half-year was 21,140l. 13s. 9d.

The statement of receipts and expenditure shows that the credit half-year it had been increased to 4924l. 18s. 8d., being cash at the markers of the company and bills receivable, &c. The directors observe that but he long and severe winter, entailing additional expenditure, and the continued depression in the price of copper, this balance would have been further larger-section of the long mine manager (Capt Luce Richards bulls sets forth).

inued depression in the price of copper, this balance would have been further increased. The export of the local mine manager (Capt. Issac Richards) fully sets forth the precent position and prospects of the mines, and in his report to the board of directors he states—"From the forg ing details of the workings at different points of operation throughout the mines it will be noticed that a it shough our explorations during the past six months have not been attended with such results as were naturally to be expected from the general character of the lodes, it is satisfactory to observe that the indications in various directions and on different lodes are still of a very encouraging nature." Capt. Richards also refers particularly to Watson's part of the mines. He says:—"The strata being of a most congenial character for the production of mineral, and being traversed by the several cross-courses in connection with which our richest ourses of over error found on the main lode, our chances of success in this promising range of mineral ground, extending many hundreds of fathoms in length, are very great." And he further remarks as to the fine specimens of tin which are being constantly found in the raisings from the explorations at Wheal Enma, "strongly indicating the existence of this mineral in depth" on this strong and masterly lode.

by the several cross-courses in connection with which our richest courses of prevention on the main toin, you chances of success in this promising range of size the further remarks as to the fine specimens of the which are being constantly found in the raisings from the explorations at Wheal Emm., "strongly points the last half-vearly meeting the directors stated that previous to the holding of the next half yearly meeting the directors stated that previous to the holding of the next half yearly meeting they would engage the services of an experienced and competent mion manager—one well acquainted with copper and it in similar to the state of the previous of the holding of the next half yearly meeting they would engage the services of an experienced and competent mion manager—one well acquainted with copper and it in similar to the state of the state of the control of the con

ved as an amendment that the report and accounts be not re-

Mr. Wirz moved as an amendment that the report ard accounts be not received and adopted.

Mr. Rickandson seconded the amendment on the ground that it was very desirable the shareholders should have the fullest information.

Mr. P. V. SMITH remarked as to the fees paid to the directors. However, he did not wish to be unreasonable, and he suggested that half the amount hitherto paid to the board should be voted under existing circumstances.

Mr. WITT asked for a list of the attendances of the directors.

The CHAIRMAN said that when he took upon himself the management of this undertaking everybody stated that it would be a great millstone round his neck, and that it would be utterly impossible to go on without making heavy calls. At that time the shares were quoted at 17s., and he and his colleagues had to give their individual credit to the bankers to the extent of something like 7000. They, however, went on until they improved the position of the company, in spite of all the difficulties and anxieties which they had had to encounter. He (the Chairman) held the second largest interest in the undertaking, and he tusted that whatever was said would be fair to himself and his colleagues. (Hear, bear.) With regard to the questions asked by Mr. Palue, the items forming the property and assets were fairly and properly stated, and they actually amounted to 53,384,, which was certainly, as the report stated, approximate to 70,000,4 as to the expenditure in agency that was an item which had been very much larger than it was at the present time. It was reduced a time of time ago at nit instigation, and it could not be further reduced without sacrificing the property. Of course the agents to whom the money was paid wore the officers of the company. As to his remuneration as managing director, that was originally fixed at 150, a year would entry the resonable was an item which had been very much analyse. The area of the company. As to his remuneration as managing director, that was originally fixed at 150, a year would entry

were also increased by the shareholders from 300l, to 500l.; but it was for the shareholders to vote the directors what they thought proper. There had been 14 formal board meetings in the half-year; but beyond these the directors had frequently met at the office and discussed the affairs of the covepany. With regard to the proxies, forms had always been sent out in the interests of the general body of the shareholders. The accounts were open for the inspection of the shareholders, and the fullest details could always be obtained. (Hear, hear.) The amendment was then put and lost, only the mover and seconder voting for it.

requently met at the office and discussed the sificars of the core pary. With reral body of the shareholders, The accounts were open for the inspection of the
shareholders, and the fullest details could always be obtailed. (Hear, hear.)
The amendment was then adopted unantimously.
The registral proposition was then adopted unantimously.

Mr. Wirr asked how it was that Capt. Joslah Thomas had not yet been able
to inspect and report upon the property. He added that the report was. like
previous reports, a very promising one; but the promises made in past years
Mr. Richarsov asked for information with regard to the reserves?—Capt.

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Richarsov asked for information with regard to the reserves of
procedure at the mines as they had followed from the commencement. There
and reserves of munificat 13,000 tons. They were following the same course of
procedure at the mines as they had followed from the commencement. There
after commencing. He and the other sagents at the mine paid the greatest attention to the property, for they all had the interests of the company at heart,
and were doing their utmost to make the mine as successful as it had been in
time past. They could do no more. (Hear, hear.) The prospects were very
good deposit of copper ore and mundie in the 20 fm. level, and they were meet
ing with as fine specimens of tin as could be found anywhere, and he had no
doubt that the lode would prove productive for tin in depth. The specimens
ing with as fine specimens of tin as could be found anywhere, and he had no
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ing with as fine specimens of tin as could be found anywhere, and he had no
many the specimens of the specimens of the specimens of the specim

was voted.

The CHAIRMAN reminded the shareholders that in the current half-year they had to meet seven months' costs against six months' returns. But for this fact a dividend might have been declared.

On the motion of Mr. PAINE, seconded by Mr. THORNE, a cordial vote of thanks was passed to the Chairman, directors, and officers of the company.

DEVON GREAT UNITED COMPANY.

The half-yearly general meeting of shareholders was held at the offices of the company, Austin Friars, on Tuesday,

The Right Hon. Lord CLAUD HAMILTON in the chair.

offices of the company, Austin Friars, on Tuesday,

The Right Hon. Lord CLAUD HAMILTON in the chair.

Mr. W. H. ALLEN (the secretary) read the notice convening the meeting, and the report of the directors and statement of accounts, showing cash balance to end of April of 1085L, 12s. 1d., and arrears of calls 360L 0s. 11d. = 1445L 12s. were submitted.

The directors regret that during the past half-year (the period represented in the reports) no important discoveries of mineral have been made, but according to the present indications, as set forth in the local agent's report, it is expected that good ore ground will be shortly opened up. In his concluding remarks Capt. Isaac Richards reports:—" Looking at the great improvement in the character of the lole in the 120, west of Willesford's shaft, we are encouraged to hope that brighter prospects are in store for us, and we fully believe that such will be the case." The directors thought it desirable, in the interests of the shareholde's, to have an independent examination of the mine, made by a thoroughly competent mine manager, and they accordingly obtained the services of Capt. Charles Thomas, of Cook's Kitchen Mine, who made a careful inspection of the property, and whose report is herewith submitted for the information of the members. Referring to the West Maria lode, Capt. Thomas says:—"This lode has been of great value eastwards, and seeing the kindly nature of the killat to the west, there is every reason to expect the lode to be equally productive westwards, when the ago to beyond the influence of the caunter. I should recommend the rapid driving of this 60 fm. level west. You have some 500 fms. of ground within your raghts in that direction, and the chances of success here I believe to be very good. It will also be important to see what effect the cross-course may have on the lode."

The CHAIRMAN: Gentlemen, we have very fully stated the posi-

The CHAIRMAN: Gentlemen, we have very fully stated the posi-tion of the mine and the operations which have been carried on since we last met. The general tenour of the report undoubtedly is that we are considerably disappointed that all the results we had anticiwe are considerably disappointed that all the results we had anticipated have not yet been realised. There is no doubt that we did expect the unquestioned wealth of this property would have been deeveloped earlier, and that we should have been able to give a more satisfactory account of our operations. But though our very reasonable expectations have not yet been realised, nothing has occurred in any way to disprove the soundness of the principles and of the anticipations upon which this company was founded. At present they have not been realised; but that is what is so very often the case in regard to mining operations. The indications still continue to be exceedingly have not been realised; but that is what is so very often the case in regard to mining operations. The indications still continue to be exceedingly regard to mining operations. The indications still continue to be exceedingly there and have known the property for years, are all that could be desired. All the experts in the neighbourhood agree in awing that we must come upon very the experts in the neighbourhood agree in awing that we must come upon very valuable results. How soon we may do so it is not for us to indicate. There is very abundant proof that the property does contain very valuable minings, for in the last six weeks we have succeeded in obtaining very much better products a given better to be an able to exhibit, and some of these are now on the table. I am happy to say that in the last three or four days a very valuable distable. I am happy to say that in the last three or four days a very valuable distable. I am happy to say that in the last three or four days a very valuable distable. I am happy to say that in the last three or four days a very valuable distable. I am happy to say that in the last three or four days a very valuable distable. I am happy to say that in the last three or four days a very not better products at last the property of the property o

mically carried out, the machinery has been placed very satisfactorily, and now we are beginning to see decidedly better results. Probably some gentlemen may wish to ask questions with regard to the report and balance-sheet, and I may say that any information required will be readily given. I think it is much the better way of dealing with any matters requiring solution. Hitherto we have carried on the works without any serious accident; but, unfortunately, within the last three weeks, a very sad accident happened, through which two fine young fellows lost their lives. Nobody will ever know now the accident happened. They were carrying down a bax of detonators, and they were blown to pieces. An inquest was heid, at which the managers of the company were entirely exonerated from blame. Whether the accident was the result of misadventure or imprudence will, I suppose, never be known. I now beg to move—"That the report of the board of directors now read, and the statement of accounts, together with the auditor's report thereon, be received and adopted, and entered on the minutes of this day's proceedings."—Mr. HENRY BENYLEY seconded the motion.

accounts, together with the auditor's report thereon, be received and adopted, and entered on the minutes of this day's proceedings."—Mr. Henry Beylley seconded the motion.

Mr. Moses Bawden explained the plan of operations, and said the company was started with the object of getting back through the western ground, which was considered a very valuable piece of properly. Close to the eastern boundary of their property the great riches of Devon Consols were discovered. Willesford's shaft had been sunk to the 120 fm. level, and that level had been driven in some distance. In the early part of the level the lode was comparatively small and disapointing, but a few weeks ago a decided improvement took place. Mr. Watson happened unexpectedly to come on to the mine at the time of the discovery, and saw the stuff brought up from the improving, and he believed that as they continued the level west they would get into the great shoot of ore which was or rich at the 70 fm. level. If so they would have a very large piece of ground to take away, for nothing had been done between the 70 and the 120 km. levels. The lode in the 120 was from 4 to 5 ft. wide, containing one worth from 51, to 81, per ton at the present standard. They would, he believed, be having some of this ore now towards meeting the costs. The ore solve had accurately break some tons of ore in the next few weeks, and he saw no reason whatever why they should not have a very fine course of ore between the 70 and 120 fm. levels.

Cant. Richards endorsed Mr. Bawden's remarks, and said he believed they

in the state of this ore now towards meeting the costs. The ore sold had realised about 2501; but judging from the present indications they would certainly break some tons of ore in the next few weeks, and he saw no reason whatever why they should not have a very fine course of ore between the 70 and 120 fm. levels.

Capt. Richards endorsed Mr. Bawden's remarks, and said he believed they would have a permanent improvement.

Mr. Bentler: Is there any water at the 120?—Mr. Bawden's Yes; there is a stream of water coming away from the lode. The lote is about 5 ft, wide in the bottom of the 70, and from 3½ to 4 ft, whice in the 120, but in the shaft it was not more than 1½ or 2 ft, wide, and was worth nothing at all.

Mr. Bentler: How far have you to drive east to the bound ry?

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Wilson, and an east of the real to the far have been so for the real to further improvement, and the drive have had to the samples of stuff or the table por earth of the water of the water of the had been and the results had not been more satisfact ry. Hvi he been aware that the operat have would have been so protracted before arriving at results the would not have joined the company nor resommended his friends to do so; but he had results have been so protracted before arriving at results he would not have joi

KIT HILL GREAT CONSOLS COMPANY.

The half-yearly general meeting of shareholders was held at the

offices of the company, Austin Friars, on Tuesday,

The Right Hon. Lord CLAUD HAMILTON in the chair.

Mr. W. H. Allen (the secretary) read the notice convening the meeting and the directors' report and statements of accounts to April 30, showing cash balance 5791. 14s. 10.1., which with arrears of call gives a credit balance of 10801. 12s. 4d., were submitted.

The directors remind the shareholders that the chief object of the enterprise was the interection of some of the numerous lodes which are known

The directors remind the shareholders that the chief object of the enterprise was the intersection of some of the numerous lodes which are known to traver ethe Kit Hill sett by a main adit or great tunnel level, and although they have not as yet succeeded in cutting any important bodies of ore, they are in expectation of shortly doing so. The directors hope by the sinking of the shaft to communicate with this tunnel level at a depth of about 110 fms., and which, as the shareholders have been already advised, is of the utmost importance. The report of the local management shows the work which has been accomplished during the past six months, both in sinking the shaft and in the driving of several levels, as well as the important operations in the tunnel level above referred to, and state that it is their opinion that, by effecting the communication mentioned and cutting the lodes, some profitable discoveries will be mayle. The directors being of opinion that it would be desirable in the interest of the shareholders to have an independent report of the company's property instructed Capt. Charles Thomas, of Cook's Kitchen Mine, to make the necessary examination.

of the shareholders to have an independent report of the company's property instructed Capt. Charles Thomas, of Cook's Kitchen Mine, to make the necessary can ination.

Captain Thomas, in his report, states—The tunnel referred to above has been driven about 152 fais, and the present end is about 450 fais from the line of the engine shaft. Between these two plates, the tunnel end and the shaft, went in the same of the control of the contr

The CHAIRMAN said: Gentlemen, it is not my intention to trouble on with many remarks, because I always consider it very much better for shareholders to point out subjects upon which they require information than for me to make a long oration, and, perhaps, not touch upon the points which need elucidation. I hope you will look at the plan which we have inserted with the report, and that you will be able to follow any of the remarks made as to the locality of will be able to foliow any or the retained in which we are all engaged is a very considerable one. We have attacked the largest hill in the district, and are carrying on a tunnel or adit a hien will certainly take two or three years to complete. Therefore, we yell who entered into the concern must have been aware that this undertaing is one requiring a very considerable amount of time before the aock we have set ourselves to do can be accomplished. The works, as you are probably aware, are being carried on at two distinct places; one at the top of the hill, and the other at the bottom, where this great tunnel is being driven. I can r port that the progress of the tunnel is satisfactory; but it is slow, for this reason, that we have met with grantine of extreme density, and we now met, with more of it into we anticipated. We knew that we should meet with some; but the anount we have met with its necessarily make our progress comparatively slow, though, as you are all aware, we are working with rock-drills. So, of our directors think that sufficient progress has not been male, and we have had differs from rival rock-driv manula threes to make a sort of contract with so on these terms, that if they succeed in carrying out the work place at a most had seen that the consideration, and are still ready to receive anything on to I cannot tell you. You will observe this a have the consideration, and are still ready to receive anything on the I cannot tell you. You will observe this a have three experts, and the succeeding all of the work quicker at a more consideration, and are still ready to receive anything or not I cannot tell you. You will observe this a have three experts, and the succeeding anything or not I cannot tell you. You will observe this a have three experts, and the content every information that we can give you. First, there is the respect of the local managers. They also will be prepared to give the most minute details upon any subject upon which you may be pleased to ask for information. Not wishing t the different points of operation. This undertaking in which we are all engaged is a very considerable one. We have attacked the

Capt. C. Thomas, a gentleman very well known in the district, and he has given in his report his views generally as to how matters should be conducted. I may say that we were carrying out the operations on the plan which he suggests as the most beneficial. In cutting the tunnel we have come across two or three small veins, but we have not yet found on the plan which he suggests as the most beneficial. In cutting the tunnel we have come across two or three small veins, but we have not yet found on the with the view of making a communication between the shaft and the tunnel. We are confident, judging from the general character of the country and from the neighbouring mines which have proved so valuable, that we shall meet with something much more satisfactory than anything we have yet meet with. At the mouth of the tunnel as all the stuff is brought out, it forms a great bank, which will ultimately provide a reservoir for a considerable sheet of water to approve to error when we are ripe for them. The machinery is working extremely well. It has been put up very economically, and it is proving that we were very fortunate in the purchase we made. With regard to the top of the hill and the operations which are going on there, we have got about 5 fms. below the 75 fm. level. We are constantly finding very good specimens of tin, and we are laying open a section which is after ing abundant promise for the future. We are most sanguine that so, and the statement of accounts now read, with the auditors' report thereon, be received and adopted, and entered on the minutes of this day's proceedings."—Gen. Cours Gooxworkyrx seconded the motion.

Mr. Pair complained that the expenses of the company were too heavy, and suggested that the number of directors might be reduced, so that those who remained might be properly paid for the different on the seconomical as possible. In the course of some further conversarion, Dr. Brown and Mr. Battrir referred to the necessity for economy in all directions, and their fees were very small

some general observations, reiterated his belief in the success of the undertaking, and said that the lodes which undoubtedly traversed the sett had yielded millions of pounds in produce in the neighbouring mines.

The usual compliment closed the meeting.

HINGSTON DOWN CONSOLS MINING COMPANY.

The ordinary general meeting of shareholders was held at the offices of the company, Queen-street-place, on Wednesday,
Mr. EDGAR FIGGESS in the chair.
Mr. JOHN ELPHICK (the secretary) read the notice convening the

meeting. The reports and accounts were taken as read.

The CHAIRMAN said the shareholders had doubtless read the reports, and those documents gave them all the information possible. The chief feature in them was that they had made no great discoveries, and as they were getting somewhat near the end of their tether they had taken steps in concert with Messrs. Taylor to reduce the expenditure had been tether they had taken steps in concert with Messrs. Taylor to reduce the expenses as far as possible. It would be seen that the expenditure had been very considerably reduced, and that they had just made another call. The accounts were plain and satisfactory, but if there were any points requiring explanation he would be most happy to give it. The directors had taken a great deal of pains to promote the success of the company, and they had occasionally been down to the mine, and consulted with Capt. Richards as well as with the Messrs. Taylor on the operations in progress, and he did not think they could have done mre than they had to bring about a better state of things. The Chairman then formally moved the adoption of the report and accounts.—Mr. STEWART seconded the motion which was carried without discussion.

Mr. F. Bladdon said the shareholders would like to hear what Mr. Taylor had to say in regard to the prospects of the company.

Mr. RICHARD TAYLOR said: There is unfortunately no very new feature in our mine; that is to say there has been no marked change in the lode in those levels in which we have continued to explore the mine since your last meeting. The state of the finances of the comine since your last meeting.

Mr. RICHARD TAYLOR said: There is unfortunately no very new feature in our mine; that is to say there has been no marked change in the lode in those levels in which we have continued to explore the mine since your last meeting. The state of the finances of the company rather alarmed your directors, and it was suggested by them that the scale of operations should be somewhat restricted. It had been our policy, as you are aware, to push as fast as possible the trial of all the promising points that we had met with, and I think I may say that nothing was done which did not present a fair prospect of leading us to something good, but we have not had the improvement that we might reasonably have expected. We have not had that increase in the quantity of ore contained in the lode which almost everyone who has inspected the underground workings anticipated we should have before arriving at the depth we have got to. The lode is one of a very favourable and good mineral character throughout, and contains ore enough to characterise it fairly as a copper lode from which good returns might have been anticipated. It in many respects closely resembles the lodes which in that district have been very productive and very profitable, but although we have now arrived at a depth of 0 fms. we have not got any marked improvement in the productiveness of the lode. In the first place to what is mentioned which in that district have been very productive and very profitable, but although we have now a wear of the lode of the control of the company to which I have alluded led in the first place to what is mentioned here—that is, a suggestion as to reducing the cost of management—which resulted in my.firm abandoming 1001, of the 1501, we have hitherto received, leaving us merely a nominal retainer of 504, a year. A further step in the way of economy was the suspension of all the points in which there was not some almost timmediate prospect of improvement. We had passed through several small lodes or branches, as they are called, in which

e old mine.
The Hon. Roper Curzon asked whether there was any probability of meeting the hin in depth?——Capt. Richards, in reply, expressed his belief that tin ould be found in depth in the old mine, and it was not improbable that tin ould be discovered in the portion of the property which they were now

working.

The CHAIRMAN remarked that the old workings had been abandoned for the present, but the engine was there and was kept in good order, so that the old mime could be reworked whenever it might seem desirable to do so.

Mr. Bladon said the greatest economy seemed to be practised everywhere, and great credit was due to the Messrs. Taylor, and to the directors for what they had done. The only thing for them to do was to go quietly on upon the lines indicated by Mr. Richard Taylor. (Hear, hear.)

The directors—Messrs. H. P. Hall. Edgar Figgess, and F. E. Kew—were relected, and Mr. J. CATILER STEWART, who had notified to the directors that he wished to be appointed auditor in conjunction with Mr. Waddell, offered hinself for that purpose on the ground that it was desirable to have a shareholder as an auditor as well as a professional accountant.

Mr. BLADON pointed out that Mr. Waddell had audited the accounts for many years and had given every possible satisfaction, and he did not think this was a time at which they should increase the expenses by appointing a second auditor, more especially as such an appointment could have no effect in improving the position of the company. (Hear, hear.)

Mr. BHARRWOOD and another SHARRHOLDER endorsed the remarks of Mr. BHARRWOOD and another SHARRHOLDER endorsed the remarks of Mr. Bladon, and the CHAIRMAN stated that the accounts were, of course, open then such that the proceedings closed with a vote of thanks to the Chairman and directors, and to Messrs. Taylor and the officers of the company.

COED-Y-FEDW AND PANT-Y-BUARTH LEAD.

An ordinary general meeting of shareholders was held at the offices of the company, Great St. Helen's, on Tuesday,
Mr. E. J. BARTLETT in the chair.
Mr. J. Wood (the secretary) read the notice convening the meeting, and the minutes of the previous meeting, which were confirmed

or une company, Great St. Helen's, on Tuesday,

Mr. B. J. Wood (the secretary) read the notice convening the meeting, and the minutes of the previous meeting, which were confirmed and signed as course.

If the provide that has been in your hands for the customary seven days as read. (Taken as read.) Very well; it is now my duty to move the first resolution—'That the balance-sheet as made up to April 30, 1833, together with the directors' and agents' reports, he received, adopted, passes, and allowed. The report both of the directors and Mr. Prinse disposed, passes, and allowed. The report both of the directors and Mr. Prinse disposed, passes, and allowed. The report both of the directors and Mr. Prinse disposed, passes, and allowed. The report both of the directors of a first the present moment, band I and my colleagues have, I think, great reason to congratulate the shareholders on the very salisfactory condition of affairs. You believe the saling of the shareholders of the very salisfactory condition of affairs, and the present moment, band I and my colleagues have, I think, great reason to congratulate the shareholders on the very salisfactory condition of affairs. You believe the saling into consideration the shares that we have in reserve, of Sili. 187, 4n. and if you compare that with the second and undersed, a few reasons and the saling the saling into consideration the shares that we have in reserve. You will also motion a foot note in regard to the lead ore decaded and undersed, a few reasons and the saling the salin and signed as correct!
The CHAIRMAN said: I presume you will take the balance-shee

tured to make returns before this. I am sure, however, that it will strengthen the confidence of the proprietors when I tell them that the directors are the largest shareholders in the undertaking.

Mr. Berrs: I take it that, I lead were at a little better price it would not be injudicious to press it to the market.

The CHARMAN: Having got Rowland's shaft into such a condition, we shall not trouble ourselves about the price of lead.

Mr. James S. Eastes was reappointed unanimously auditor of the company for the ensuing year.

Mr. James S. Eastes was reappointed unanimously scaled of the company for the ensuing year.

Mr. Betts then proposed a vote of thanks to the Chairman and directors, which was seconded by Mr. Catchpole, and heartily agreed to.

The CHAIRMAN: It is a pleasant duty to meet the shareholders with a favourable statement; but it is more pleasant when we have something to declare, and I am satisfied in my own mind that you will all have reason to appreciate the exertions of your directors long before we hold the next meeting.

The proceedings then terminated.

GAWTON MINING COMPANY.

The annual general meeting of shareholders was held at the offices of the company, Austin Friars, on Wednesday, Mr. George Batters in the chair.

Mr. EDWIN F. COLMER (the secretary) read the notice convening the meeting, and the directors report and statements of accounts were submitted. The loss on the six months ended June, 1882, was 12371, 3s. 2d., and on the six months to end December 4801, is. 12871. 38. 20. At present the mine appears to be paying cost, and the agents are sanguine that henceforth profits will be made. The necessity for a reconstruction to raise fresh capital has arisen from the

the agents are sanguine that henceforth profits will be made. The necessity for a reconstruction to raise fresh capital has arisen from the fact that the estimates of the agents have been exceeded, and the original capital (6000L) having to some extent been absorbed by the debts of the old company. The reconstruction of the company commends itself to the directors as being the only equitable plan whereby the interests of the shareholders can be conserved. The 10s, liability will only be called up as required.

Capt William Rich, of South Condurrow, in a special report, after referring to various points of operation, said—There are several men employed in stoping the back of the 117 as well as in the shallower parts of the mine, from which the principal supply of arsenic and copper is obtained. As I have often said before you have a great extent of unexplored ground before you in an easterly direction, and a strong masterly lode to operate on. Ishould advise that the driving of the bottom level be urged on as rapidly as possible, as well as another drivag on the course of the lode—say, at the 80 fm. level. I have discussed with the members of your board the advisability of extending these levels by meens of rock-boring machinery, and in the pesent state of the mine I cannot advise you just now to incur this additional expense, at least not till some further discovery is made to warrant the outlay. The munds you are now treating contain some 15 per cent. of arsenic. I think by carefully selecting the best portions of the lode the percentage might be raised to (say) 25 per cent.; if this can be done it will materially assist influenting the expenses of carrying on the explorations on the course of the lode east of the shaft. I consider it a good speculation to push on the drivage spoken of.

The following report of the agents was read;—

May 22.—Since the last general meeting a powerful Blake's patent stone-breaker, with a 16-horse power Robey steam-engine has been exected, for the purpose of preparing the ore and

The CHAIRMAN stated that the reports fully explained the present position of the company. Unhappily, the accounts for the first half of the year showed a loss of 1287L, while the loss in the last half of the year was 480L. In the period which had elapsed since the close of the accounts—about four months—the loss had been 298L. This was not satisfactory in itself, but it was favourable in comparison with the loss austained in the early parts of last year. The mine was now about paying its expenses, and there sense to be the present of a better state of things. He expenses, and there sense to be the respect of a better state of things. He of whom held 1870 shares at the present time, and their disappointment was at great or greater than that of the outside shareholders. He had given the utmost attention to the affairs of the mine, and besides visiting the property from time to time he had secured for the company the top prices for its arsenic, and he had alaboared in a manner which he would hardly have done had the property been his own. They were sold that if the shareholders would put up arend to time he had secured for the company that top prices for its arsenic, and he had alaboared in a manner which he would hardly have done had the property been his own. They were sold that if the shareholders would put up arend comitted to the end of its tether, and was in debt over 200M, the directors had to consider what was best to be done. They had propounded what they considered an equitable scheme—to wind-up the company, and reconstruct it, fixing the capital at not less than 30,000C in shares of 2C 10s. each, with 2C evaluate, less than 30,000C in shares of 2C 10s. each, with 2C evaluate, less than 30 the shareholders and the considerable proportion of that was swallowed up by the debts of the old Cost-book company. With the balance furnaces were receded and the other work had been carried on. With the assistance of Mr. Bawden the furnaces had been erected as cheaply and as perfectly as they could the content of the The CHAIRMAN stated that the reports fully explained the present position of the company. Unhappily, the accounts for the first half of the year showed a loss of 1287L, while the loss in the last half of

ported upon the lode as he saw it.

In the conversation which ensued there was a general expression of opinion that Cspt. Rowe had shown a want of proper judgment in his management of the mine, and more especially in the preparation of his reports.

The report and accounts were adopted.

On the motion of the CHAIMAN, seconded by Mr. LESTER, Mr. J. C. Bolten, F.O.A., was re-appointed auditor.

made; and from the present condition of the property I can only say that I rejoice to occupy the position of Chairman of so promising an enterprise. And I am sure that those gentlemen who are here to-day, if they could only see the amount of work that has been accomplished in the past, and understood a little of the underground landscape, they would readily believe that we have no insignificant a property in the Pant-y-Buarth, and that long before the next annual meeting we shall be able to circulate among all the shareholders such a statement of results as will afford them the greatest possible satisfaction. All things considered I think we may well congratulate ourselves on the happy position we find ourselves in to-day. (Applause)

Mr. Thripoould, in seconding the motion for the adoption of the report, commended the system of economy adopted by the board. On being put to the meeting the motion was carried unanimously.

The Chairman: The next resolution, which I think should be proposed by some shareholder is that the retiring directors, Major J. C. Addison and Mr. John G. K. Burt, be, and are hereby, re-elected directors of the company. I can only say that we have every reason to be proud that we have two such gentlemen connected with the board. Major Addison is most attentive to the affairs of the company, and from Mr. Burt the company derives considerable advantage for. a his long experience in Cornwall.

Mr. Better: I have much pleasure in proposing their re-election.

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Mr. Better: I have much pleasure in proposing their re-election.

Mr. Cacuppoles seconded the motion, which is was carried unanimously.

Mr. Better: I C.A., was re-appointed auditor.

An extraordinary general meeting was held immediately after for An extraordinary general meeting was held immediately attentive the purpose of passing special resolutions to wind-up the company voluntarily; to appoint Mr. Edwin F. Colmer liquidator at 101. 10s. remuneration; and "that the liquidator be authorised to sell and transfers the property and business of the company as a going constant of the property and business of the company as a going constant of the property and business of the company as a going constant of the property and business of the company as a going constant of the property and business of the company as a going constant of the property and business of the company as a going constant of the property and business of the company as a going constant of the property and of the the m

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BRATSBERG COPPER COMPANY.

An informal general meeting of shareholders was held at the offices of the company, Austin Friars, on Thursday, in order to afford them an opportunity of meeting Capt. Daw, the manager, who is at present in England.

resent in England.
Mr. J. H. Murchison in the chair.
Mr. H. C. Murchison (the secretary) read the notice convening

And a company. Austin Friars, on Thursday, in order to afford them of opportunity of meeting Capt. Daw, the manager, who is at present in England.

Mr. J. H. MURCHISON in the chair.

Mr. H. C. MURCHISON (the secretary) read the notice convening the meeting:
The Chairman and the convening that the chair is the chair.

The Chairman so plainly what the object of the meeting is, that no doubt you will be rather pleased if I do not occupy your attention gany minutes, particularly as Capt. Daw is here to give you every information you will be presented the property information and the convening the meeting is that no doubt you will be presented the property information and the convening the convening the meeting is that no doubt you will be a convening the meeting in the quantity of one broken and raised, and ready to be sent away, related to the convening the convening the convening the convening the quantity of one broken and raised, and ready to be sent away, related to the property in the convening the convenin

losed with ice?

Capt. Daw: I do not think the canal would be closed by ice, but the lake light be. This year the lake was closed for three months, but last year it was of closed at all.

A SHAREHOLDER: Has the ore got richer?

Capt. Daw: It is about the same—18 to 22 per cent.

A SHAREHOLDER: When do you suppose the new machinery will be ready a work?——Captain Daw: The greater part will be ready by the end of september.

by work?—Captain Daw: The greater part will be realy by the end of Sptember.

The CHAIRMAN: Everything is on the mine.

Capt. Daw: The houses are all built for it. We can scarcely say at present to what extent we can increase the returns. Our dressing machinery is running night and day, and that will be the next matter we must turn our attention to. We are building houses, so that the machinery will work in winter and summer. A SHARRHOLDER: Will you smelt your own ore?

Capt. Daw: We cannot; it is too far to take coals up. Besides, the ore is too lich, and requires to be mixed with poorer ore to smelt with it.

Capt. Daw; we cannot; it is too far to take coals up. Besides, the ore is too lich, and requires to be mixed with poorer ore to smelt with it.

Capt. Daw; in reply to a further question, said there was always plenty of water for all purposes. There were fair facilities for getting the ore to Swanses. There were also two steamers running to Newcastle, so they could always send the ores to Newcastle provided they could make any fair arrangement.

A SHARRHOLDER: Are there any rock-drills amongst the new machinery?

Capt. Daw: Yes, five.

A SHARRHOLDER: Is it more profitable to sell the ore in Newcastle than at Swanses?—Capt. Daw: No, I think not. We have not such good opportunities of sending to Swanses as to Newcastle we take the ore by road to the town of the sending to Swanses and to Newcastle we take the ore by road to the town of the strength of the works, but the mode of sampling it at Newcastle in to satisfactory as at Swanses.

A SHARRHOLDER asked the total of ore sent home from the commencement of the mine?—Capt. Daw: We sent 14,000%, or 15,000%, worth last year, but we shall have more this year. We have already 12,000%, to 14,000%, of ore broken and lying on the mine.

The CHARRMAY: Last year it was only 14,000% for the whole year.

70 fathoms. If it were not for this we should have to go to the top of the land aink a shaft.

Mr. S. York said he believed the mine was well ventilated?——Capt. Daw: Well, yes; we have almost too much of that. The levels are driven into the side of the hill, and are about 2: fms. apart. They had opened about 400 fms. in length, underground, and the engine was quite as good now as when it started, and better. The further they went into the hill and the deeper they went down the better the lode became. When they started on the top the lode was 1½ ft. wide, and now it was 4, 5, and 6 ft. wide.

A SHAREHOLDER: How much is it worth?——Capt. Daw: From 121, to 131. or 141, per fathom.

The SHAREHOLDER: Does the mine unwater itself?——Capt. Daw: Nearly; we only want a small Tangye pump.

The SHAREHOLDER: When you come to the deeper workings will you want more power?

Cabt. Daw: It is not like in Cornwall, where they want 70 to 100-in. engines.

The SHARHOLDER: When you come to the deeper workings will you want more power?

Capt. DAW: It is not like in Cornwall, where they want 70 to 100-in. engines. Another great advantage is, that we have no lords' dues to pay and no equabbles such as we have seen at Dolcoath—we are not called upon at the end of 20 years to pay 20,000t. for the renewal of the lease. We have had but little to pay for timber; so, if we are burdened with a little more for carriage, that is more than compensated by the saving in dues. We do not pay anything for water; we take all we want from the river. There is a specimen of ore from the deepest level; it is 60 per cent. ore. That specimen is very rich in silver.

A SHAREHOLDER: Does it increase in quantity as it goes down?—Capt. DAW: Yes, and we think the silver will increase also. We send over a good deal of silver, but they give us nothing for that. This ore contains 10 ezs. of silver to the ton.

silver, but they give us nothing for that. This ore contains to the ton.

The SHAREHOLDER: I suppose the smelters get it out?——Capt. DAW: Certainly, but they give us nothing for it. If they have ore of 20 per cent. they get 20 ozs. of silver, but they will not pay you for it; but if they get 21 ozs. they will pay you for 1 oz. (A laugh.)

The SHARHOLDER: If we smelted the ore that would be profit?——Capt. DAW: Yes, but we should have to lay down heavy plant and have electric batteries, which would also take out the gold—for the ore contains a small quantity of gold.

gold.

A SHAREHOLDER: The Cape Copper have bought smelting works at Swansea

The SHARHOLDER; If we smelted the ore that would be profit?—Capt. Daw: Yes, but we should have to lay down heavy plant and have electric batteries, which would also take out the gold—for the ore contains a small quantity.

A SHARHOLDER; The Cape Copper have bought smelling works at Swansen for their own use?

Capt. Daw: Yes; and when we get larger possibly we might do the same but in that cass I should propose that the works should be placed at Skin. We should be placed by should be placed at Skin. We sh

Christian of Denmark 300 years ago, and they went down, but the old Bratsberg. Company never went down. All this money was spent before I went to Bratsberg.

A SHARKHOLDER asked whether the board had considered the desirability of selling the Guidnes property, by which capital could be obtained to develope the other mins?

The CHARMAN said the board considered the time had scarcely arrived to take any step with respect to that. The present time was not favourable to take any such steps, but when they proved more conclusively the value of the mines they were now working they were more likely to find customers for the rest of the property. The directors had talked about it, but no serious idea had been sufertained of carrying it out at present.

Capt. DAW said the operations at Bratsberg had attracted so much attention in Norway that Norwegians were mining within seven miles of the mine. The Norwegians were sea-faring people, and did not believe in putting their money underground; they preferred keeping it on the top, but they had now started mining within seven miles of Bratsberg.

Capt. DAW, in reply to a question, that at the present price of copper the profit on a ton of ore was about 4%. The price of copper was better now than a month ago by about 12, per ton. The best proof of his considence in the mine was that he had never sold a share, and he now held over 2000 shares. (Cheers.)

Aff. SLOUS said he wished to pay a tribute of respect to Capt. Daw for the clear, lucid, and most bleasant statement which he had given to the shareholders. (Hear, hear.) He proposed a vote of thanks to the Chairman for his very courteous conduct in the chair.—The motion was carried.

The GHAIRMAN acknowledged the compliment, and proposed a very cortial the had every contected as to the great value of the mine; and, as regarded the Nessmark Mine, said he hoped the directors would be able to work that from the resources they had.—Mr. SLOUS seconded the motion, which was carried.

Capt. DAW acknowledged the compliment, and the pro

SORTRIDGE COPPER COMPANY.

A special meeting of shareholders was held at the offices of the company, Austin Friars, on Tuesday,—Mr. H. S. STRACHAN in the chair.
Mr. C. Harrison Smith (the secretary) read the notice convening the meeting.

The CHAIRMAN: The notice calling the meeting no doubt has created alarm in the minds of many when it is mentioned that the meeting is summoned with a view to winding up. But that was not the intention so much as to induce those members who take an interest in the company to come here, so that we might ventilate the question as to the desirability of either finding more money to reach the mine?—Capt. Daw: We sent 14,000% or 15,000% worth last year, but we shall have more this year. We have already 12,000% of ore broken and lying on the mine.

The Chairman: Last year it was only 14,000% for the whole year.

Capt. Daw: We shall send you over 120% tons, if not more.

A BY MARKHOLDER: When will the machinery be at work?—Capt. Daw: Some it in September, and all by the end of October. The turble will be ready in the course of a few months we should reach what was known as the world.

The Shareholder: Will the turbine act upon the drawing machinery as well?

Capt. Daw and it would. The mine was looked upon as a wonder in that part of the world. Some years ago, when working the mine on his own actually for this out two places had come in a court for the world. Some years ago, when working the mine on his own actually for this part of the world. Some years ago, when working the mine on his own actually for this out two places for horse-whims, and those two places had come in the protection of the world. Some years ago, when working the mine on his own actually for this out two places for horse-whims, and those two places had come in the protection of the shareholders present, because the three the meeting was held on the mine, you will remember that the prospects stated at that meeting against 525 tons May 31, 1882. Stock of Core for Barilla in I should have liked to have seen more shareholders present, because the definition of the three the meeting was held on the mine, you will remember that the prospects stated at that meeting against 530 tons fine, against 525 tons May 31, 1882. Stock of Chili In Havre, 165 tons fine, against 526 tons May 31, 1882. Stock of Chili In Havre, 165 tons fine, against 526 tons May 31, 1882. Stock of Chili In Havre, 165 tons fine, against 526 tons May 31, 1882. Stock of Chili In Havre, 165 tons fine, against 526 tons May 31, 1882. Stock of Chili In Havre, 165 tons fine, against 526 tons May 31, 1882. Stock of Chili In Havre, 165 tons fine, against 526 tons May 31, 1882

I than two or three have ktpl their promises. Such being the apathy of the shareholders it now becomes a question whether it is really desirable to find more money, so that in course of a few months we may know whether we have this great success that we are led to believe exists there or not. It appears to me that, having spent so much money on the mine, and having been within a very short time of reaching this particular spot, it is a great pity that we should sacrifice the property for a few hundred pounds, when it will only result to the benefit of those parties who will come in very likely and secure the mine at a state of the control of the property of a few hundred pounds, when it will only result to the benefit of those parties who will come in very likely and secure the mine at a state of the control of the property. It is a great pity that we should be a shape or form. I believe in the property, and the chances are, if you will only make a little further sacrifice of money, it will be attended with success. Financially, I have done my best. I have found money to pay even the labour costs this time, and the previous time I did so too. By death and resignation you have only two directors left, and we have done all we can. It is now for you to say whether you will lend us help to reach his point about which we are been dead to the property of the Mr. Boxton suggested that the capital of the company should be fixed at \$3,0001, and that the balance of 20.0 shares should be held in reserve to be issued should occasion arise for the advantageous employment of the 500t.

Mr. S. 708K said he believed the mine was well ventilated?——Capt. Daw:

A committee of conference was then appointed, consisting of Alesars. Goslett, fleep, Protham, Browne, and Hugh Mackay.

The proceedings closed with a vote of thanks to the Chairman and directors.

The further they went into the hill and the deeper they went down the better. The further they went into the hill and the deeper they went down the better. The further they went into the hill and the deeper they went down the better. The further they went into the hill and the deeper they went down the better. The further they went into the hill and the deeper they went down the better. The further they went into the hill and the deeper they went down the better. The further they went into the hill and the deeper they went down the better. The further they went into the hill and the deeper they went down the sacrifice the property for a few hundred pounds, when it will only result to the sacrifice the property for a few hundred pounds, when it will only result to the sacrifice the property for a few hundred pounds, when it will only result to the sacrifice the property for a few hundred pounds, when it will only result to the sacrifice the property for a few hundred pounds, when it will only result to the sacrifice the property for a few hundred pounds, when it will only result to the sacrifice the property for a few hundred pounds, when it will only result to the sacrifice the property for a few hundred pounds, when it will only a very likely and severe the property for a few hundred pounds, when it will only a very likely and severe the property for a few hundred pounds, when it will only a very likely and severe the property for a few hundred pounds, when it will only a very likely and severe the property for a few hundred p

He pointed out that a 1tf. note from each shareholder would give the company a chance.

A SHAREHOLDER suggested with general approval that the unalloted shares should be issued before debenture should be thought of. Let each of the shareholders take up his quota of shares.

Mr. SPRY: Though I would chiefly benefit by the stopping of the mine by the present company, as I have reminded you already, I would do all I can to assist the company, and prevent any suspension of the operations. (Hear, hear.)

Mr. GEO. BROWN lately had a conversation with Capt. Skewis, who said that this was one of the best properties in the Tavistock district. It was most important to continue the operations, and, therefore, he would subscribe more shares, and do all he could to help.

Mr. SHANONS had responded when the first circular was issued, and looking at the value of the property, and the great liberality of the landford, he was much surprised that more shares had not been taken.

The discussion was prolonged for a considerable time, and in the end the 1000 shares asked for by the board were taken up, and the resolutions for liquidation were not proceeded with.

A vote of thanks to the Chairman brought the proceedings to a close.

HORNACHOS.—At the meeting on Wednesday (Mr. H. C. Scott in the chair) a provisional balance-sheet for the 18 months to end December was submitted, but has not been forwarded for publication or abstract. The Chairman explained the present position of the company's affairs, and stated that in the absence of complete accounts from the mines, owing to the large amount owing for costs and of the inventory of stores in hand, the present balance-sheet had to be compiled from the London books only. After a discussion upon the general state of the affairs of the company, during which there was a strong expression of feeling by some of the shareholders present respecting the excessively large salary of 1000, per annum paid to the London manager while the workmen at the mines were allowed to go unpaid, the accounts were unanimously received. It was proposed by Mr. S. R. Pattison, and seconded by Mr. R. Jolly, that those shareholders who are unable to take up their proportion of the new 10 per cent. debentures should surrender 20 per cent of their holdings to the directors, to be distributed by them as a bonus to those who are willing and able to take up the new debentures, which was carried unanimously, Mr. S. Loveridge was re-elected a director, and Mr. George Heirow with Mr. Richard Jolly were unanimously elected to seats on the board, in the place of Mr. A. Parisot and Mr. Arthur Edwards, resigned. The auditor was also re-elected. HORNACHOS.-At the meeting on Wednesday (Mr. H. C. Scott in

THE COPPER TRADE.

THE COPPER TRADE.

Messrs. HARRINGTON, HORAN, and Co. (Liverpool, May 31)—
Chili copper charters for first part of May were advised on May I as 1100 tons, all bars and ingots, of which 150 tons for England, and 950 tons for orders here or Continent. Price of bars was \$18079\cdots, and exchange 349\cdot Charters for second part of the month are now due. During the past fortnight Chili bar market has experienced sharp fluctuations, commencing at 67\cdots, bot, sales were made down to 61\cdots, form which figures a good business was done up to 64\cdots, afterwards a reaction took place and prices speedily fell to 62\cdots, bot, sales were made down to 61\cdots, form which figures a good business was done up to 64\cdots, afterwards a reaction took place and prices, after touching 63\cdots, close easier at about 63\cdots, 10.s. spot, and sellers of forward at 64\cdots, 5s. fine which there has been a good demand for spot, and prices, after touching 63\cdots, close easier at about 63\cdots, 10.s. spot, and sellers of forward at 64\cdots, 5s. The business in furnace stuff, which has been considerable during the same period, comprises:—At Liverpool: 48\cdots tons Chili regulus, just arrived per Ugil, 60 tons to arrive per La Escocesa, and 50 tons to arrive per Esmeralda, all at 12s. 64\cdots, 70 tons just arrived, per Charlwood, at 12s. 74\d, 110 tons Canadian at 12s. 44\d, and 90 tons American at 12s. 64\cdots, 300 tons Mexican ore, and 42 tons Peruvian at 12s. 14\d, 120 tons Italian ore (low produce), and 1000 tons Betts Oveo ore to arrived, at 11s. 9d., also 750 tons spot, and 100 tons Italian ore, just arrived (low produce), at 12s. 41\d, 120 tons Italian ore in 12s. 117\d, 120 tons Quebrada regulus at 12s. 64\cdots, 51\text{Type} to 100 tons Mexican ore, and 100 tons Autratian ore (Moonta) at 12s. 64\cdots, 51\text{Type} tone Quebrada regulus at 12s. 64\cdots, 51\text{Type} tone Quebrada regulus at 12s. 64\cdots, 51\text{Type} tone Quebrada regulus at 12s. 64\cdots, 51\text{Type} tone Suee tone at 12s. 117\text{Ty

Total — 4,028 24,290 444 — Representing about 26,547 tons fine copper, against 27,016 tons May 15; against 23,782 tons May 31, 1832; 30,635 tons May 31, 1831; 31,610 tons May 31, 1832. Stock of copper-contained in other foreign ore and Spanish precipitate, 2288 tons fine, against 2252 tons May 31, 1832. Stock of Coro Goro Barilla in Havre, 2012 tons fine, against 2752 tons May 31, 1832. Stock of Coro Goro Barilla in Havre, — tons, against 53 tons May 31, 1832. Stock of coro Goro Barilla in Havre, 165 tons fine, against 250 tons fine, against 2500 tons fine, again

MINING MACHINERY, MILLING MACHINERY

Of the MOST APPROVED AMERICAN PATTERNS.

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The California pattern of Gold Stamp Mill is universally accepted as the most perfect, economic, and efficient made.

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Silver amalgamation in Pans is essentially an American system evolved after years of work on the rich silver mines of Nevada.

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per hour. White, Howell. Bruckner, and Stetefeldt Roasting Furnaces, &c.

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Mining Correspondence.

BRITISH MINES.

BEDFORD UNITED.—N. Trexiss, May 29; North Lode: There is no change in the 115 cast. The 103 west is worth 12t, per fathom. The stopes behind the end are worth respectively 2t, per fathom. The tribute pitches are about the same rathe. —M'Calian's Shaft, Bridge Lode: The 52 cast is very promising, lode strong and masterly in appearance, and giving out water freely, composed of capet, mundie, and spotted with ore. The 62 west is without change. The 42 cast is very promising, lode 4 ft. wide, and worth 12t. per fathom. The 30 cast is without salteration. The wines sinking below the 30 is down 2 fms, lode 3 ft. wide, composed of capel, spar, and mundie. The several stopes in the book and bottom of the level are without change. The 10 is in the 20 cast is much the same in appearance and value. We have sampled 125 tons of ore for the past month.

month.

BUE HILL3.—S. Bennetts, R. Hurds, H. Gripe, May 30: The lode in the 68 east end continues to look promising, and is worth 7t, per fathom. On the Baldhu lode the 54 east and west ends are producing low quality tinstoff. The 42 east end is worth 6t, per fathom. In the 31 east end the lote is small, and at present not of much value. The Gumpas adit west end is worth 4t, to 5t, per fathom.

22 east end is worth 62. per fathom. In the 32 east end the lote is small, and at present not of much valus. The Gumpas adit west end is worth 42. to 52. per fathom.

BWLGH UNITED.—W. Northey, May 33: I am pleased to state that the heavy rain on Monday night, and the accumulation of water in the large reservoirs, have enabled me to restart our machinery, which is now working at full speed; but, unfortunately, the weather still continues very dry, although favourable for gas-tarring and whitewashing the buildings, &c. The men are busily eng ged in selecting, tramming, and drawing the orestaff, and I hope to be able shortly to resume the drivage at the 100 fm. west. The pumping, drawing, and dressing machinery in good order, and working well.

OARN CAMBORNE.—W. O Vivian, May 31: In the 95 fm. level, east of sump on the south lode, we have met with granite coming in from the south, and, finding chlorite, or tin peach, on the north, are now cutting into it, hoping that we may discover the main and valuable part of the lode in that direction. In the rise in the back of the 95 fm. level, west of sump, the lode continues of much the same nature and composition as when last reported. I have selected some samples of copper ore broken from this rise, showing the nature of the lode, and which will be forwarded to you on Saturday next, together with specimens of tin-stone from the same lode. In the 40 fm. level, west of engine-shaft cross cut, we found, by cutting through the north lode (as reported last week), that it is of the great width of 11 ft. For the whole of this size it is of a favourable character for the production of copper, and we are now opening westward into it on the south wall, where the proportion of copper so us to be increasing. A rich discovery at this point would be of the greatest importance to the shortenday of the mine, as this level is now entering that portion of the rett to the west of the emine, as this level is now entering that portion of the rett to the west of the cornect at 46 (Case groes

then commence cross-cutting the load to its tan wash, and say it open stoping.

CREIGIOG.—H. Hotelkiss, May 30: The only change worthy of notice in our underground workings is in the 130 cross cut, going south at Meadow shaft; here we have tapped a small feed of water in this end, although the ground is without change to notice. This is a favourable sign that there is more load standing to the south of the present end. To-day we are commencing to divide, case, and fix ladders in this shaft from surface to the bottom, a depth of 133 yards. Buttli this work is completed nothing further will be done in this shaft in way of breaking ground, as I have taken all these men to not this work.

OWM DW YFOR AND BRYNARIAN (Brynarian Mine).—John Davies, May 30: Joseph's Level: According to your instructions we left the branch and began driving this level due south.—Pranam: The lode in this 22 driving north looks very premising; we find small strings of level in it occasionally, but not as yet worth swing.

worth quite 3 tons of blende and about 5 cwts. of lead ore per fathom. The wines is now sufficiently deep to communicate with the stope over the 15, but direction, which, according to contract, the tributers will have to 6c. I have now suspended the winze, and put the men to make the level; good to the open the contract, the stope of the contract the contract of t

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ing of shaff commenced, and further operations will at once be proceeded with a most of lead. We purpose cross-cutting immediately into the way consists a tone of lead. We purpose cross-cutting immediately into the way consists at ever to intersect ther not for expone down in the level work of the way consists at a lead of sheld all of sheld exportance where the control of the c

NEW VAN CONSOLS AND GLYN.—H. B. Verco., D. Douglas, May 31: In the cross-cut driving south in the 70, west of Murray's shaft, the lode contains more quarts, in which we find occasional spots of lead; it is appearance has imported, and as we have an immess width of lode yet to cut through before the sunging in the contained of t

PARYS COPPER CORPORATION.—T. Mitchell, May 31: The lode in the 65, est of cross-course, is looking much the same as last week. We find the crey part of the lode is more towards the hanging side, and in stripping down the isde on this side we have towards the hanging side, and in stripping down the isde on this side we have broken out some good saving work. We have not done much at surface trial this week, as we had to take the hands to assist in preparing the precipitate.

PENHALLS.—S. Bennetts, J. Goyne, May 30: In the 80 west end the lode is it, wide, and worth 54, per fathom. In the 70 east end it is worth 54, per fathom. The 50 east end is worth 54, per fathom. The south section of the lode is the 52 east end is worth 54, per fathom, and on the Baidhu lode the 42 west end is producing some low quality tinstuff. In the other points of operation there is no change to notice.

PEN-YEVORSEDD.—B. Prince, May 31: The lode in our west level, the 165, has been rather pinched, but now shows signs of opening out, and I am pleased it say traces of lead have been discovered, and I think there can be scarcely say doubt that we are near to a large deposit of ore. During the next week or wall defined. South Cross-out: At the 17, driving on the ross-course, the gound is running in more combs and joints than we have seen before.—High-burrow Shaft: We continue to make fair progress in sinking; the lode is anot so wall defined. South Cross-out: At the 17, driving on the cross-course, the gound is running in more combs and joints than we have seen before.—High-burrow shaft: We continue to make fair progress in sinking; the lode is standing on the footwall, and has not been taken down for the month; this shaft is sinking in the centre of the mine, and from the improved prospects sinking below the 17 there is every indication that at the 30 a valuable section of ore ground will be opened up. On Monday we sold 37 tons 14 cwts. tinstuff for 74. 11s. 6d. The sinking of Highburrow shaft to the 30 is making good progress, and opening

Ported.—Goodhuck: Stope in the older of the Stope in the ROMAN GRAYELS.—Arthur Waters and Bons, May 31: The 125 north is in a lode 3 ft. wide, worth 1 ton per fm. The 125 south is in a lode 3 ft. wide, yielding stome good orestuff. The 110 north is yielding stome of ore of a promising claracter. The 110 south is up to Corfeder and the state of the 30 fm. Reversible without delay. The long out is up to Corfeder and the worth 2½ tons per fm. The 25 south is in a lode 3 ft. wide, compact of 2 ft. wide, compact of specific and improving as we go toward. The 25 south is worth 2½ tons per fm. The 25 south is in a lode 3 ft. wide, compact of 2 ft. wide,

I am sure will prove most advantageous to the company. Now that the fine weather is on I hope to be able to get into the other shafts and set the men to

I am sure will prove most advantageous to the company. Now that the fine weather is on I hope to be able to get into the other shafts and set the men to raise ore upon tribute.

We shall continue to press this forward with all possible speed; also to clear the 40 east on No. 1 the other to press this forward with all possible speed; also to clear the 40 east on No. 1 the other to prove its value and report the same.

He could be considered the contract of the same of the contract of the co

a very strong and fine looking lode, and such as is likely in depth to be very productive. The ground is favourable for sinking in, therefore good progress is being made. The stamps are being erected, and I hope soon to have them at work.

TREGONTREES AND OLD POLGOOPH CONSOLS.—L. Pascoo, May 29: As I intimated in my last, our various stopes are of a very encouraging character, and in order to work those stopes more advantageously I have deemed it expedient to all concerned to let them on tribute. The following is a list of stopes now let on tribute. On the main lode at the 17 at 11s. in 14; standard 50t, per ton for their tin. On the lode in the back of stamps at 10s, in 14; standard 50t, per ton for their tin. On the lode in the back of stamps at 10s, in 14; standard 50t, per ton. Nos. 2 and 3 stopes on flat lode at 3s, in 14, and market price of tin. No. 1 stope on the flat lode not to be let this month.—Deep Adic: Still opening ancient workings.—New Shaft: Shall complete the 10 fm. sluth course of a few days. The machinery throughout is working well.

TRESAYEAN.—Captains Priss and Edwards, May 25: Engine-shaft: We have itself the 16-in. plunger-life at the 75, and are pleased to say it is working well, and the drop-lift is sent to the 109, at which point we hope to be in fork by midsummer.—William's Shaft: We have cleared about 16 fms. through the 27 cross-cut north towards Gooch's and Caddy's lode; the importance of clearing this cross-cut is that it will enable us to see Caddy's lode at the 27 below the deep adit. At the deep adit we have cleared the level worked by the former workers on Gooch's lode east and west, and intend this week to put a pare of men to open on the eastern end.—Gooch's Lode: There is no change in the value of this lode since our last report. We are now going to put a pare of men to stope over the back of the eastern end, and will let you know the result in our next report. We have erected a horse-whim at Treweek's shaft to draw from this and the old since our last report. We are now

WEST POLIBREEN.—W. Vivian, May 31: We have intersected Tregay's loss of the post 10 to lost is about 2 ft., which, producing rich abouts of tile, worth about 10 miles of the post 10 miles of the pos

Continue to work well.

TREVAUNANCE UNITED.—Wm. Vivian, May 31: We continue to push on the cross-cut south of middle shaft, in the 55, to intersect the Friendly lode. Our tribute ground continues to produce its usual quantity of tin. There are several old miners asking to take tribute pitches in the south part of the mine. We are about to put up a horse-whim on the south shaft, when the ground asked for which is linking below the 62 continues to look very encouraging, and still yields good saving work for copper ore. In the 62 west no lode has been taken down for the month, but we shall begin to take it down in the early part of next week. There is sunk the required depth for a 50 fm. level, where the lode is 18 in. wide, composed of flookan, apar, mundic, and copper ore; the men are now engaged in squaring down the ground to fix the sollist, and will commence the drivage and put in the necessary timber to bring down the winze kibble without delay. The lode in the end of the 38 west is improved to 2 ft. wide, composed of flookan, apar, mundic, and copper ore; the men are now engaged in the end of the 38 west is improved to 2 ft. wide, composed of flookan, apar, mundic, and copper ore, with a very kindly appearance, and with an increase of water.

WEST GONAMENA.—N. Richards, May 30: The main lode in the adit level, diving west of shaft, fully maintains its size and promising appearance, producing peach, mundic, and some rich copper ore.

WEST GONAMENA.—N. Richards, May 30: The main lode in the adit level, diving west of shaft, fully maintains its size and promising appearance, producing peach, mundic, and some rich copper ore.

WEST GONAMENA.—N. Richards, May 30: The main lode in the adit level, diving west of shaft, fully maintains its size and promising appearance, producing peach, mundic, and some rich copper ore.

WEST GONAMENA.—N. Richards, May 30: The main lode in the adit level, diving west of shaft, fully maintains its size and promising appearance, producing west of shaft, fully maintains its value; on

RALLWAY AND (ENERAL MARKETS.—Referring to the course of business done to-day during official hours (11 to 3) Mr. Ferdinand R. Kirk. Birchin-lane, writes:—Opening: Dealt in yesterday at 102½, and last week at 99½, Brighton A is changing hands at 108½. The stock closed yesterday at 105. Mexican Funds are again higher now, 31½; white Mexican Rallary Ordinary is below 123½. ex div. Erles remain at 35½¼ Atlantic First Morgage being unaltered at 47½. The announcement of a bonus of 20½, as well as a 20½ dividend, has brought in buyers of Cape copper at over 50½, the recovery having been as rapid as the recent fall. East Wheat Rose, ½ to ½; Old Shepherds and Tresavean cach ½ to ½; Monats Bay, ½ to ½; discretioned, ½ to 1½, or 20½ or 20½, or 20½ or 20½, or 20½ or 20½, or 20½ or 20½, or 20

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The Mining Market: Brices of Metals, Ores, &c.

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Canada: IX 6s. per box more than IC quoted above, and add 6s. for each X. Terne-plates 2s. per box below tin-plates of similar brands.

At the works, 1s, to 1s. 6d, per box less for ordinary; 10s, per ton less for Canada; 1X 6s, per box more than IC quoted above, and add 6s, for each X. Terne-plates 2s, per box below tin-plates of similar brands.

REMARKS.—Some rather important variations have to be reported in certain branches of the metal trade, but they do not arise so much from any circumstance affecting general business as from features influencing the separate markets, but taken all round the tendency has been towards reduced rates. In cases after opening with some show of strength, and being supported by firmness through the action of speculators, prices are not maintained at the best points of the week, but have relapsed, and the tone damped and again depressed. In other strices a falling away has been the principal characteristic, while in others prices have fluctuated from day to day, sometimes favouring buyers and sometimes sellers. These remarks will be sufficient to show that the movements, irregular and uncertain as they have been, have not arisen from any great infinience at work affecting the whole trade, otherwise they would have been all in the same direction; but their changeable nature indicates that speculation is to be largely attributed to some of the markets, and the course of prices for the sundry metals has varied in accordance with the action of the several operators. But setting aside business for speculation, and looking merely at home Ade trade, it is a matter of considerable regret that there are no symptoms of improvement; and though in some cases speculators have operated for the rise, and by which it would appear that they see something in the prospects of the trade to show that more flourishing times are at hand, and the probability of realising advanced and more remunerative prices, yet so far there is apparently mothing in legitimate trade to warrant such an idea, and general business in all metals is kept within narrow limits. In fact, there seems to be but one feature which perhaps forms an inducement to s

tailed, as it indicates too plainly that people are more impoverished, and can ill afford to travel.

CoppER.—Owing to a large speculative business this market has become very undecided and fluctuating. The gradual hardening tendency which we reported in our last issue resulted at the end of last week in leaving the market in a far greater state of activity than had previously characterised it, and the improved feeling which had been gradually developing burst out in considerable activity, and caused a somewhat important advance to be made in prices. The market having closed with an animated tone on Saturday it opened again this week in a very similar condition; but or Tuesday there was a reaction, the feeling was entirely reversed, and prices fell away, for Chili bars in particular, and little desire was shown to make purchases even at the reduced rate—in fact, at times it was difficult to find buyers at all, except at figures below the general and official quotations. Holders, however, were not very ready or willing sellers, and not great pressure to make sales was experienced, and on Wednesday again another change in the tone was to be observed, business became once more active, and prices were almost restored to what they had previously been quoted at the early part of the week.

Large buying continued, and further advances were yesterday made, both for prompt and forward parcels; but when the deliveries for the month of May were made known, and which, although good, did not turn out to be quite so large as was generally anticipated, there was a slightly easier tendency, though in other than the second of the control of the

and prices were almost restored to what they had previously been quoted at the early part of the week.

Large buying continued, and further advances were yesterday made, both for prompt and forward parcels; but when the deliveries for the month of Maywere made known, and which, although good, did not turn out to be quite so large as was generally anticipated, there was a slightly easier tendency, though no great change was effected. From the unsettled state of the market, it will be seen that the movements have been of a highly speculative character, and come field trade in this metal has continued dull, and without improvement. Smelters, seeing that stocks were drifting into the hands of speculators and uncertain how far they would run upiprices, came forward, and fully secured their wants; hence we have an insight into the good deliveries; but whether regular wants; hence we have an insight into the good deliveries; but whether regular have shown no likelihood whatever of doing so; in fact, the better prices rather checks business, and necessitates the returning of some orders which might otherwise have been placed. To-day the market has been irregular, 631, 105, taken for sharp cash, and 631, 17s, 6d, prompt three months; closing slightly better, 644, 2s, 6d, sharp, and 644, 12s, 6d, three months. The charters are 700 tons for the last fortnight.

IRON.—This market is dull, and, with regard to manufactured, no noteworthy change has been effected either in the demand or in the

noteworthy change has been effected either in the demand or in the prices that are being realised; and with reference to pig-iron, there is still great depression. Prices are low, and show no prospect of The stope in the back of this level is worth 15% per fathom. The

improving. This may appear rather surprising, for shipments keep very good, and certain branches of the trade are reported very active; but, at the same time, there is an absence of all speculative feeting. Over production is said to be the parent and root of the depression, and it is stated that not until makers give up their suicidal policy of over production in blowing-in fresh furnaces unthere be any hope of improvement in pig-iron. It is said that if a few furnaces were blown-out instead of put into blast the aspect of the market would be very speciliy altered; but so long as the present number of furnaces are blowing the speculating public will not return to the market. The returns from Glasgow this week do not call for more than a passing comment; there is nothing special in them except the relighting of another furnace, which is so greatly complained of, and which is said to be the principal cause of the present depression, though undoubtedly there are other reasons which could also be assigned—for instance, the great paucity in general business. But the shipments are fairly good, and the totals for the whole year are now nearly equal with those for the same time of year. Prices of makers iron keep steady, and the demand is without change, still continuing quiet for all brands.

The advices from Middlesbrorough also report the market there as dull and in a lifeless and uninteresting condition. The Glasgow warrant market having opened this week with a slightly fluctuating tendency, business was done in warrants down to 463, 7½d., and on Tuesday the price varied between 463, 9½d. and 468, 6d., closing with sellers at the lowest point. On Wednesday the market was steady with but little business doing at 468, 8½d. to 468, 8d. cash. Yesterday the market was again reported dull, and very little doing, the price being 468, 6d., and the closing figure this afternoon is 463, 8d. The shipments last week were 9130 tons, against 9760 for the same week of last year, being an increase of 4370 tons, and which makes th

this metal, and prices have undergone various alterations. At the early part of the week quotations fell away, afterwards for a time kept steady, and then rallied upon the announcement of good deli-veries for last month; but this improvement was quickly followed weps steady, and then rained upon the announcement of good deliveries for last month; but this improvement was quickly followed by another re-action. In so sensitive a market consumers continue to buy cautiously; they apparen ly effect their purchases as their requirements necessitate, and in this they evidently adopt the most prudent plan, as it is but a mere chance as to what the course of the market may be on the following day, as it very much depends upon the action of a few operators who do not regulate their movements from the statistical position, or from other features which invariably influence trade; but merely base their sales or purchases, and thus regulate the market as far as practicable, as may suit best their own interests. The principal features of the week have been the announcement vesterday of good deliveries for the month of May, and also the Banca sale which yesterday took place at Rotterdam.

The price realised at the auction was an average of 53 g., which is equal to 97t, per ton. Whether this price realised what was expected or not may not be easy to discover, but it would appear not to have done so, since the advanced rates of the morning, through the good deliveries, were not maintained in the afternoon, when the result of the sale was made known. It is a good sign that, notwithstanding the comparatively high value of this metal, regular business is not interfered with to any extent, as the deliveries testify, and that he vast amount of speculation that is invariably carried on in this metal does not produce any serious adverse influence upon the regular demand: and, therefore, to some extent it does good, although when prices are advanced it is to be feared that that is the chief cause of increasing supplies to this market.

SPELTER is quiet and the price of ordinaries is 15t, and of specials 15t, 5s, to 15t, 7s, 6d, per ton.

LEAD—Spanish has been sold and is still attainable at 12t, 12s, 6d, per ton and English at 12t, 17s, 6d, to 13t, 2s, 6d.

per ton and English at 121. 17s. 6d. to 13t. 2s. 6d.
STEEL.—A fair business continues to be carried through at steady

TIN-PLATES.—With the exception of wasters, for which there is a fairly good inquiry, the demand is inactive and prices unaltered.

QUICKSILVER.—The official quotation remains unchanged at 51. 10s., but considerable realisations have been made by second-band helders at inventor prices. hand holders at irregular prices.

The settlement of the usual fortnightly account has occupied the chief attention of the dealers in the MINING SHARE MARKET this

chief attention of the dealers in the MINING SHARE MARKET this week, and only a moderate amount of business has been transacted in fresh bargains. The mines dealt in have been Wheal Crebor, South Caradon, Roman Gravels, East Blue Hills, the New Caradon, Langford, Trevaunance, West Crebor, Prince of Wales, D'Eresby Mountain, Gunnislake (Clitters), and a few others.

TIN has been rather weaker, but there is no alteration at present in the standard for ores. Shares are very little dealt in, and fluctuations for the most part nominal. Blue Hills, ½ to ¾; Carn Brea, 7 to 8; Cook's Kitchen, 31 to 33; Dolcoath, 58 to 60; East Pool, 44 to 46. East Blue Hills, 6s. to 8s.; the sale of tin this month (4 tons 17 cwts) realised 2594. 12s., and shows a profit. North Blue Hills, 2s. to 3s.; New Kitty, 2 to 2½; South Condurrow, 8 to 8½; South Frances, 8½ to 9½; Tincroft, 7 to 7½; Killifreth, 2½ to 3½; West Basset, 5½ to 5½; West Peevor, 4½ to 5; Wheal Agar, 14½ to 15½; Wheal Kitty (8t. Agnes). 1½ to 1½; Wheal Peevor, 3½ to 4½. Wheal Basset, 5½ to 6½; at the meeting a call of 11, per share (50001.) was made. The accounts showed a debit balance of 71871. 4s. 11d. The tin ores sold realised 35931. 12s. 4d. Wheal Uny, 3 to 3½.

At the East Lovell meeting a call of 17, per share (20481.) was made. Wheal Grenville, 5½ to 6½; the accounts for the meeting show a profit on three months' working of 1281., and a balance in hand of 3451. The tin sold (79 tons) realised 43671. The costs were 44221.; the coal bills, owing to the wet season, amounted to 12221. At the Wheal Sisters meeting the accounts showed a loss on the quarter of 14431, and a balance against the company of 23121.

were 4422.; the coal bills, owing to the wet season, amounted to 1222l. At the Wheal Sisters meeting the accounts showed a loss on the quarter of 1443l., and a balance against the company of 2312l. A call of 5s. per share (1500l.) was made. The tin solid during the quarter (100 tons) realised 5447l. South Crofty, 7 to 8; at the meeting here a call of 15s. per share was made. The accounts showed a loss on the quarter of 1516l. West Polbreen, 1½ to 1½; Tregay's lode has been cut at the 40—worth 10l. per fathom. Trevaunance, 2½ to 3. West Kitty, 13 to 14; the mine is returning about 25 tons of tin per month, and looking well. The dividend will, it is expected, be 10s. per share. Tresavean, ½ to ½; Mounts Bay, ½ to ½; Kit Hill, 1-16th to ½; New Trumpet, 25s. to 30s.

COPPER shows no particular change, and there is only a moderate business doing in shares. The chief demand is for low-priced speculations, with fair prospects. Bedford United, 1½ to 1½; Carnarvon Copper, ½ to ½. Devon Great Consols, 4 to 4½; full particulars of the meeting will be found in another column. East Caradon, ½ to ½; Gunnislake (Clitters), 1½ to 1½; Langford, ½ to ½; Marke Valley, ½ to 1½; Mellanear, 3 to 3½; Mona Consols, 1½ to 1½; New Cook's Kitchen, 5 to 5½; New Caradon, 6s. to 8s. West Caradon, ½ to ½; at the meeting the accounts showed a balance of assets over liabilities of 5144. 10s. 2d. but a call of 6d per share, (3001) west

to 3; at the meeting the accounts showed a balance of assets over liabilities of 5141. 10s. 2d., but a call of 6d. per share (3001.) was made. The costs for four months, to March 31, were 10351. The ores sold to January, 10271. 6s. 2d.; the ores sold on May 17 realised ores sold to January, 1027. bs. 201, the ores sold on any 17 remised 7121. 14s. 2d. The agent states that, looking to the quantity of ore broken and sold from the limited number of fathoms of ore ground laid open, compared with the thousands of fathoms of unwrought ground still standing of equal promise, the chances of discovering

ore in paying quantities are exceedingly good.

New West Caradon, 6s. to 8s.; the accounts here show a balance of liabilities over assets of 111. 7s. 7d., and a call of 9d. per share of habilities over assets of 112. 7s. 7d., and a call of 9d. per share (450l.) was made. Prince of Wales, $\frac{1}{3}$ to $\frac{1}{4}$; the 102 west in a very fine lode, with rich stones of copper ore, and tin worth 15l. per fathom. South Caradon United, $\frac{1}{4}$ to $\frac{3}{6}$ prem.; South Devon United, 1-16th to $\frac{1}{6}$; South Penstruthal, $1\frac{3}{4}$ to 2; West Crebor, 6s. to 8s.; Wheal Creber, $2\frac{1}{6}$ to $3\frac{1}{6}$; the points in operation are of considerable value, and ore is coming into the shaft below the 132 fathom level.

42 east is worth 12l. per fathom. The stope in back is worth 10l. per fathom. Sortridge, 1-16th to \(\frac{1}{6}\); at the meeting on Tuesday the resolutions to wind-up were not brought forward, the minimum number of shares being subscribed for. Good results are expected from cutting the Great North tin lode in the 40. Collacombe, 4s. to 6s.; Gawton, \(\frac{1}{2}\) to \(\frac{3}{6}\); Hingston Down, \(\frac{1}{6}\) to \(\frac{1}{2}\); West Devon, 5s. to 7s. Mona, \(\frac{3}{2}\) to 4; the annual meeting, particulars of which will be found in another column, was held on Thursday. The manager's report was of an encouraging character. West Seton, 14 to 16; the lode in the shaft is improving, worth 80l. per fathom for the length of the shaft.

lode in the shaft is improving, worth 80l. per lathom for the length of the shaft.

Lead remains about the same, and there is very little doing in shares. Vans, 6 to 6½; Edward's shaft will be completed to the 75 in a few days. All points of importance maintain their value. Great Laxey, 16½ to 17½; Roman Gravels, 7½ to 8½; the sampling here is 300 tons of lead ore. Tankerville Consols, 3s. to 5s.; Bog shaft is down 11 fathoms below the 170; Tankerville is looking better. Leadhills, 2½ to 2½; the directors have declared an interim dividend of 4s. per share. South Darren ½ to ½; they sell 45 tons of sliverlead ore on June 8. Frongoch, 1½ to 2; the mine has sold 40 tons of lead ore. Goginan, ½ to ½; Grogwinion, ½ to 1; North Grogwinion, ½ to 1; Coed-y-Fedw, 21s. to 23s.; East Rose, 10s. to 12s. 6d.; Old Shepherds, ½ to ½; Great Holway, 5 to 5½; Herodsfoot, 6s. to 7s.; Pennant, 4½ to 5½; Pen-yr-Orsedd, 1 to 1½; Sinclair, 23s. to 26s.; West Holway, 1 to 1½; West Lisburne, 1 to 1½.

FOREIGN MINES.—Akankoo, ½ to ½; Alamillos, 1½ to 1½. Almada and Tirito, ½ to ½; Anglo-African Diamond, 2 to 3; Asia Minor, ½ to ½; Australian, 3 to 3½. Bratsberg, 1½ to 2½; a meeting was held on Wednesday to hear the views of the manager, Capt. Daw, who stated that although the new machinery was not yet at work he estimated the copper ore on the floors and in transit at 12,000l. to 14,000l., and that they had been discovering three times the quantity they had been taking away. He valued the reserves in the ground opened at

the copper ore of the moors and in transit at 12,000s. to 13,000s., and that they had been discovering three times the quantity they had been taking away. He valued the reserves in the ground opened at considerably above 200,000s. Callao Bis, 9-16 to \$\frac{1}{2}\$; Canadian Copper

been taking away. He valued the reserves in the ground opened at considerably above 200,000\$\textit{L}\$ callao Bis, 9-16 to \$\frac{1}{2}\$; Canadian Copper and Sulphur, \$\frac{1}{2}\$ to \$\frac{1}{2}\$.

Cape Copper, 50 to 55; the directors on Wednesday declared a dividend of \$1\$\textit{L}\$, per share, and a bonus of \$1\$\textit{L}\$ per share, both payable, free of income tax, on June 23 to shareholders on the books on June 11. Cape of Good Hope Diamond, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; Colombian, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; Colombian, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; Colorado United, \$\frac{3}{2}\$ to \$\frac{1}{2}\$; Copiapo, \$3\frac{1}{2}\$ to \$\frac{3}{2}\$; Colorado United, \$\frac{3}{2}\$ to \$\frac{1}{2}\$; English and Australian Copper, \$1\frac{1}{2}\$ to \$1\$; Fortuna, \$3\$ to \$\frac{3}{2}\$; Frontino and Bolivia, \$1\frac{3}{2}\$ to \$2\$; General Mining \$5\frac{1}{2}\$ to \$5\frac{3}{2}\$; Indian Consolidated, \$1-16\$ to \$3-16\$; Indian Glenrock, \$1-16\$ to \$3-16\$; Indian Phenix, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; Indian Trevelyan, \$1-16\$ to \$3-16\$; Kapanga, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; Kimberley North Block, \$3\$ to \$4\$.

Kimberley Central Diamond Mining Company has announced by telegram the declaration of a dividend of \$\frac{1}{2}\$ per cent. for the past quarter. The report to be presented at the meeting shows undivided profits \$26,000\$\text{\chi}\$ cash and \$36,500\$ carats of diamonds, in addition to which the company holds Mining Board bills for \$60,555\$\trac{1}{2}\$, of which \$22,879\$\text{\chi}\$ are under discount. The London agents of the company—Messrs. Freeman and Bloomfield—also announce that transfers can now be made at the London office. Lake Superior Native Copper, \$1\frac{1}{2}\$ to \$1\frac{3}{2}\$. La Plata, \$\frac{3}{2}\$ to \$1\$; the ore purchased last week was 700 tons, and the quantity smelted 775 tons, producing \$18,000\$ ozs. of silver. The value of the consignment was \$4166\$\text{\chi}\$. Linares, \$3\frac{1}{2}\$ to \$3\frac{3}{2}\$; Mason and Barry to bearer, \$14\frac{3}{2}\$ to \$1\frac{3}{2}\$. Michipicoten, \$\fra strings of copper.

New Emma, 1½ to 2½; New Quebrada, 4½ to 4¾; ditto Debentures,

New Emma, $1\frac{1}{3}$ to $2\frac{1}{3}$; New Quobrada, $4\frac{1}{3}$ to $4\frac{3}{3}$; ditto Debentures, 90 to 95; Nouveau Monde, $\frac{1}{3}$ to $\frac{3}{3}$; Organos, $1\frac{1}{3}$ to $1\frac{3}{3}$; Panulcillo, 6 to $6\frac{1}{3}$; Potosi, $\frac{3}{3}$ to $\frac{1}{3}$; Richmond, $6\frac{3}{3}$ to $7\frac{1}{3}$; Rich Tinto Bonds, 100 to 102; ditto shares to bearer, 21 to 22; Ruby and Dunderberg, 1 to $1\frac{1}{3}$: Scottish Australian, $2\frac{1}{3}$ to $2\frac{3}{3}$; Sierra Buttes, $1\frac{1}{3}$ to $1\frac{3}{3}$; South East Wynaad, 1-16th to 3-16ths; St. John del Rey, 100 to 120; South Australia Copper Mines, 11-16th to 1 3-16ths; Tharsis, $6\frac{1}{3}$ to 7; Tolima, $1\frac{3}{3}$ to $1\frac{3}{3}$; Western Andes, $1\frac{3}{3}$ to $1\frac{3}{3}$; Yorke Peninsula, $1\frac{1}{3}$ to $1\frac{3}{3}$, Western

The Market for Mine Shares on the Stock Exchange has shown a gradually improving tone throughout the week, and in many (ases an advance has been established, although the amount of business doing is still limited. Tin is much weaker, and lead is fully 2s. 6d. per ton lower, which is not very encouraging for holders of shares producing those metals. Copper, on the other hand, is slightly firmer, and an improved standard was obtained for the ores at Thursday's Ticketing. Leadhills had declared an interim dividend of 4s. per share. South Kitty has been restarted with great promise of success. It appears that the parties who have taken it up occupy prominent positions in London and Cornwall, and have determined to carry on the operations with energy and ample capital. It is said that they have lodes to operate upon at once, and that the is said that they have lodes to operate upon at once, and that the Wheal Kitty and West Kitty lode will be cut in a short time. The North Towan United Mines, also in the St. Agnes district, are likewise to be set to work as soon as matters are settled as to grants and other preliminary arrangements. Indian gold mines are almost entirely neglected.

Our usual telegram from Cornwall this evening states:—The

Our usual telegram from Cornwall this evening states:—The Cornish Mine Share Market remains very inactive, and transactions during the week have been limited, being principally confined to Killifreth, Dolcoath, Cook's Kitchen, East Pool, Tincroft, and South Frances. At Wheal Grenville meeting on the 12th inst. a profit of 128l. on 12 weeks' working will be shown. It is hoped the mine may again enter the Dividend List, possibly during this year. Wheal Sisters showed a loss of over 1400l., a 5s. call being made. At Redruth yesterday 759 tons copper realised 2853l., the standard advancing 25s. Carn Brea, 7\frac{3}{4} to 8; Cook's Kitchen, 31 to 32; Dolcoath, 58 to 58\frac{1}{2}; East Pool, 44\frac{3}{4} to 45; Killifreth. 2\frac{1}{4} to 3; New Cook's Kitchen, 5 to 5\frac{1}{2}; New Kitty, 2 to 2\frac{1}{2}; North Busy, 4s. to 6s.; Pednandrea, \frac{1}{4} to 1; Crofty, 7\frac{1}{4} to 8; South Frances, 8\frac{1}{4} to 9\frac{1}{4}; Tincroft, 7\frac{1}{4} to 8; Tregembo, 4 to 4\frac{1}{4}; West Basset, 5\frac{1}{4} to 6; West Kitty, 13\frac{1}{4} to 13\frac{3}{4}; Wheal Agar, 14\frac{3}{4} to 15; Wheal Basset, 6 to 6\frac{1}{2}; Wheal Kitty, \frac{1}{4} to \frac{3}{4}.

South African mining matters appear to have somewhat improved.

South African mining matters appear to have somewhat im South African mining matters appear to have somewhat improved. The telegram of our Kimberley correspondent—Mr. J. A. Richardson—which arrived too late for last week's Journal, says:—Proprietors of farms—Hendrick's Dall, and Eland's Drift, Lydenburg, Transval—arrived here, bringin between 400 and 500 ozs. alluvial gold, result of forticity in the property of the pr vaal—arrived here, bringin between 400 and 500 ozs. alluvial gold, result of fortnight's work on King's claims, Eland's Drift. Labour employed, 10 natives and 2 whites, no machinery; other claims on san efarm are being opened, and quantities of gold shortly expected here. Ross Hills Gold Company's machinery arrived, will be in working order in one month. Propriet is also brought down very rich specil mens of quartz not picked, the richness of these fields causing excitement among miners here. Nellmapius and Company have obtained concession over the commonage of Lydenburg township, about 17,000 acres for 30 years, with all mining rights; the ground is considered immensely rich. Reliable reports from Transvaal confirm almost incredible reports of wealth of above farms. Third annual meeting of Central Diamond Company, Kimberley, takes place; available profits are 26,0001 in cash; 36,500 carats diamonds on hand, besides which company holds Mining Board bills 60,5851, of which

available profits are 26,000. in cash; 36,500 carats diamonds on hand, besides which company holds Mining Board bills 60,585L, of which 22,879. are under discount; believed dividend of 5 per cent., equal to 28,843L for past quarter will be paid since formation. This company will thus have paid in dividends 81 per cent. on its capital. The present and future of the Kimberley Mine is fully discussed by our correspondent in his letter in the Supplement. It is to be hoped in the interest of diamond miners that the result of the slip will be to send up prices; but it must be admitted that the facts contained in the letter, considered from a commercial point of view, are not re-assuring upon this point. It is true that the claims to the east of the black line are temporarily rendered unworkable; but it seems exceedingly improbable that this will interfere with the supply of diamonds to an extent to affect prices in favour of producers; indeed the accident has been a godsend to those holders who have been able to sell upon the strength of the fallacy which who have been able to sell upon the strength of the fallacy which is likely to be quickly dispelled. As our correspondent gives the figures each buyer and seller will form his own opinion; but the question will naturally present itself:—If Beaconsfield, Standard, South-East, Rose Innes, North-East, Barnato, and British have no

blue on the floors, were they producing largely at the time of the accident? What did these claims produce in the three months and in the six months preceding the slip? and, since how long has the blue of the Kimberley Mine averaged 40s. per load in value? The largest producers are the Central and the Compagnie Française, and these between them have 140,000 loads ready for treatment and will these between them have 140,000 loads ready for treatment and will be as free as ever in three and in five months respectively. The Gem is not under reef, and therefore its output can scarcely be affected. Until figures are given it may be assumed that the North Block Company alone will send fewer diamonds into the market, and they have 6000 loads to wash in the six months, by which time their ground will also be clear. Considering all things it would appear to require much more evidence to prove that, assuming supply and demand to be the only disturbing influence, there is any reasonable probability of any permanent advance in the price of diamonds.

William Elmore (Limited) is, it appears filling its list of accelera-

William Elmore (Limited) is, it appears, filling its list of applications for shares more rapidly than the most sanguine of its promoters anticipated, the practical acquaintance of the directors with the business to be carried on no doubt producing a favourable impression business to be carried on no doubt producing a favourable impression upon capitalists. One of the directors is, it seems, much interested, from commercial considerations, in the Elmore copper extraction process, and has given a large order for apparatus to work the process estimating that it will save him on 15,000 tons of ore 10,0001, per annum at his works alone—the use of fron being entirely dispensed with. This fact is of great importance, since the estimated revenue to be derived by Willian Elmore (Limited) from this patent will be, in addition to the profit derivable from the sale of machinery, and is, put down at 60,0001, per annum. The amount of burnt ore treated at different works in the United Kingdom by the wet process amounts to over 400,000 tons per annum. The Tharsia Company the wet process amounts to over 400,000 tons per annum. The Tharsia Company solve treats 200,000 tons, and it is remarked that if on 15,000 tons the saving is 10,0001, per annum, the saving in such works as the Tharsis would alone represent a handsome dividend. Anticipating a large demand from this field of operation, William Elmore (Limited) are making great preparations for the manufacture of machinery of this process. From the profitable nature of the company's undertaking, both as regards royalties and the manufacture of machinery, 4 large and permanent success is looked forward to.

Devon Great Consols, 4½ to 4½; the sampling of copper ore during

company allarge and permanent success is looked forward to.

Devon Great Consols, 4½ to 4½; the sampling of copper ore during the past week was 866 tons for the moath's produce. The proceedings of the half-yearly meeting of shareholders will be found in another column, and it is remarked that considering the late severe winter and the additional expenditure thereby necessitated, as well as the low price of copper which has prevailed, it must be satisfactory to the shareholders to learn that under these circumstances any profit could be made. The Chairman and his colleagues may, therefore, be congratulated upon the fact that the profit during the last six months had been over 3000\(lambda{L}\). As Mr. Peter Watson pointed out, had the price of copper ore been what it was five or six years ago a dividend at the rate of 1\(lambda{L}\), per share per annum could have been paid, and that this is an important factor in the operations of the mine which cannot be overlooked, seeing that it is the low price of copper which militates so much against the company.

which militates so much against the company.

Devon Great United, \(\frac{1}{2}\) to \(\frac{9}{3}\); the half-yearly meeting of shareholders is reported in another column. It will be seen from the
agents' reports that considerable improvement has taken place in
the bottom of the mine, and the situation of this portion of the
company's property, being in close proximity to where the great
riches were first discovered in Devon Great Consols, it is hoped that something of importance will be shortly met with in Devon Great

Drakewalls, 1 to 2; the agents report that satisfactory progress is

Drakewalls, \$\frac{1}{2}\$ to \$\frac{2}{3}\$; the agents report that satisfactory progress is being made in unwatering the mine below the adit level.

Kit Hill, \$\frac{1}{4}\$ to \$\frac{3}{2}\$; in another column will be found an account of the proceedings of the half-yearly meeting of shareholders, from which it would appear that "the undertaking which the directors have set themselves to accomplish is no ordinary enterprise. Great expectations are anticipated from the driving of the great tunnel level and sinking the shaft from the top of the hill to communicate with the tunnel, the latter being already over \$80\$ fathoms deep. A vigorous prosecution of this promising concern will, there is little doubt, meet with profitable results."

South Wheal Frances, \$\frac{1}{2}\$ to \$\frac{1}{2}\$, and in demand. In another column

doubt, meet with profitable results."

South Wheal Frances, 8\frac{1}{2}\text{ to 9, and in demand.} In another column will be found a highly satisfactory report from the agents at the mine, from which it will be seen that the lode in Pascoe's shaft is worth 40\lambda. per fathom for 12 ft. long, and Marriott's shaft below the 185 is being well pushed forward. The bottom of the mine is opening out satisfactorily, and it is intended that every attention shall be paid to the working and vigorous prosecution of this mine. The sale of 30 tons of tin last month realised about 1600\lambda. Cape Copper, 52\frac{1}{2}\text{ to 55}; the directors, at their meeting on Wednesday, declared a dividend of 20s. per share, free of income tax, payable on June 23, to the shareholders on the books of the company on June 11, and a bonus of 20s. per share, free of income tax, similarly payable.

on June 11, and a bonus of 20s. per share, free of income tax, similarly payable.

Akankoo, § to §; Capt. Amondsen, who has been acting as manager at the mine, arrived home on May 23, and reports all well at the mine at time of his departure, and work proceeding satisfactorily. The company have letters also from the coast to April 28, which arrived at the same date. It was expected that the reef would be reached in another 100 ft. or less, and the air shaft to meet the adit was being rapidly sunk. The unloading of the Laura was completed, and the machinery and stores, &c., safely landed.

California Gold, 1 1-16th to 1 3-16ths; the mill run this week was 313 tons; yield, 680%; smelting ore sales, 170%; total, 850%. The shares are reported firmer.

Colorado United, 3§ to 3§; the meeting was held on Monday, the proceedings at which are fully reported in another column, again decided adversely to the direction; and upon the board being called upon to resign, an effort was made to postpone the step until August.

decided adversely to the direction; and upon the board being called upon to resign, an effort was made to postpone the step until August. This proving a failure, the Chairman—Mr. Fraser Rae—left the chair, the business of the meeting being still unfinished. The meeting, thereupon, elected Mr. T. W. Burton, who holds 2000 shares, to the chair, and a resolution was unanimously passed removing the directors from office. The next resolution in the notice of the meeting was then dealt with—that of electing other directors to fill the seats vacated. Upon this question the meeting was almost unanimous, there being but one dissentient in the room to the resolution electing Messrs. T. Wardell Burton, T. Steven Lindsay, J. Stratten Thompson, C. H. Trinks, and Arch. J. Smyth to the five seats on the board. The proceedings having been terminated, the new directors board. The proceedings having been terminated, the new directors adjourned to the offices, and held their first board meeting, attended by Mr. H. Brandon, of Essex-street, and Mr. W. F. Baker, of Messrs, Lawrence, Plews, and Baker. It is to be regretted that the late directors did not more willingly accept the decision of the majority and resign, as it is at all times unpleasant for a meeting to have to demonstrate that directors are the paid expense and not have have to demonstrate that directors are the paid servants and not the

masters of the shareholders.

Kohinoor and Donaldson, 1 to 11-16th; advices from the mines dated May 14 stated that the building of the new mill would be

limestone.

Ruby and Dunderberg, 1½ to 1½; the weekly report advises the completion of the new shaft, and of the machinery at the Home Ticket Mine, and work had again been commenced on the ore body. The result of this is shown in the three last telegrams, which have reported an increasing output. The message received this week advises an outturn of 148 tons. The ore sold for smelting during the week again thows an improvement in quality, the assay in gold and sliver at Eureka thandards being nearly \$50 a ton. It is understood that with the present output and quality of ore a fair profit is being made.

and quality of ore a fair profit is being made. Kimberley North Block Diamond, 3 to 4; the directors state that since their circular of May 3 they have received advices from their manager in which he reports subsidence of the reef, and estimates the quantity on this company's claims at 15,000 loads. He also states that the tariff fixed by the Mining Board for hauling reef is 38. per load, which he estimates will cover the cost of hauling. During the past month diamonds to the estimated value of 2200%. have been obtained from the blue which was on the floors at the time of the fall of reef; there may be a small quantity of this stound still remaining on the floors. The total figures since July 1

1882, are :—Blue ground hauled, 29,805 loads ; diamonds found, over 53,500l, worth.

53,500l. worth.

In Lead Mine shares there has been very little business, the depressed condition of the lead market and declining prices not being encouraging to investors or speculators. Tankerville, \(\frac{1}{2}\) there is no particular alteration in the mine during the past week. A further reduction has been made in the price of ore sold this week. Roman Gravels, 8 to 8\(\frac{1}{2}\), ex div. of 5s. per share paid this week; the 60, 80, 95, and 110 south are opening out well, and the sampling of lead ore for the month is 300 tons.

the 60, 80, 95, and 110 south are opening out well, and the sampling of lead ore for the month is 300 tons.

West Lisburne, \(^3\) to 1; the reserve pond for the storage of water will hold 367,200 gallons of water, and will greatly assist the dressing machinery, which will be completed at an early date.

Leadhills, \(^2\) to 3; a dividend of 4s. per share (4000l.) has been declared. Good progress is being made at the mines, especially in Gripp's adit level, which has improved \(^2\) tons per fathom.

At the General Life and Fire Assurance Company's meeting, the Chairman (Sir Andrew Lusk, Bart, M.P.) said that he thought that better times might fairly be hoped for both in respect to rates and losses. They had been exposed to excessive competition from nontariff offices, but the chief offenders were now apparently conscious that any general reduction of rates could only result in disaster. The quintariff offices, but the chief offenders were now apparently conscious that any general reduction of rates could only result in disaster. The quinquential valuation which had been made of the life business disclosed, he thought, greater material progress than on any previous occasion. The large surplus of 107,159t, was available for distribution between the shareholders and participating policy holders. There was an immense increase in the activity of its representatives all over the country, which looked well for the future growth of the company. A dividend of 10 per cent. for the ensuing year was declared, and the retiring directors—the Marquis of Exeter, Lord Gilbert Kennedy, Lieut.-Col. F. D. Grey, and Mr. J. S. Mack.—were re-elected.

At the Stock and Share Auction Company's sale on Thursday, amongst the sales were: Swindon, Marlborough, and Andover Railway, 5 per cent. Preference, 7s. to 10s.; L'on Life finsurance, 10s.; Confederate Bonds, 17s. 64. per cent.; Investors Co-operative Society, 14. shares, 15s. paid, par.

At Redruth Ticketing, on Thursday, 759 tons of ore of 7 average produce, and containing 53 tons 5 cwts, of fine copper, were sold for 28531. 19s. 6d., being 31. 15s. per ton of ore, 10s. 9d. per unit, or 531. 12s. per ton of fine copper in the ore, and an average standard

of 924.16s. Subjoined are the particulars of the two last sales:

Date. Tons. Standard. Produce. Per ton. Per unit. Ore copper.

May 17... 2012 ... £ 95 5 0 ... 634 ... £33 4 6 ... 10s. 4444, ... £51 15 0

31... 759 ... 92 16 0 ... 7 ... 31 15 0 ... 13 0 ... 53 12 0

Compared with the last sale the advance has been in the standard 11. 5s., and the price per ton of ore about 1s. 9d. The sales and amounts realised were: —Mellanear, 514 tons for 1550l. 13s. 6d.; West Wheal Tolgus, 155 tons for 891l. 11s.; New Cook's Kitchen, 65 tons for 182l. 15s.; Mount's Bay Consols, 16 tons for 90l.; New Trumpet Consols, 9 tons for 139l.

Consols, 9 tons for 139%.

BRATSBERG.—A report of the general meeting held on Thursday will be found in another column, and must be very satisfactory to the shareholders. Capt. Daw (the manager) stated that though the new machinery would not be ready for a few months longer, and they were not, therefore, able to work at all the best places, or carrying on the operations so rapidly and extensively as they could then do, he valued the copper ore now on the floors and in transitu at 12,000t. to 14,000t., while they had been discovering three times the quantity they had taken away. He estimated the reserves in the ground opened at considerably above 200,000t. The company undoubtedly possesses a large and most valuable property.

OBGANOS.—That the crushing during the month of March was not

OUSGANOS.—That the crushing during the month of March was not larger, writes a correspondent, is, doubtless disappointing, being only 50 tons, The returns which have been made (an aggregate of 110 tons of quartz producing 152 ozs. of gold), present elements for encouragement and congratulation. The average amount of gold obtained—just 1 oz. 8 dwts. per ton of quartz treated—is most satisfactory when viewed by the fact that many gold mines make a handsome profit of only one-third of such a yield. The quantity of quartz crushed can indeed, he continues, leave no doubt in the minds of crushed can indeed, he continues, leave no doubt in the minds of shareholders that the mine will prove rich and productive.

Hoover Hill.—The third bar of gold, as advised by Mr. Frecheville, May 11, as having been shipped through Messrs. Brown Brothers and Co., was received at the company's offices in London on Monday; weight 126 ozs.

FRONTINO AND BOLIVIA.—The estimated working profit for March was 2051, 12s.; but against this 2271, 16s, has been expended on capital account. Less mineral was stamped than in February by 698 tons. The principal levels and works of development were, however, carried on, and the mines promise well. The April produce is expected to pass 2200 ozs., exclusive of bought gold. The Salada Mine kept up its yield (507 ozs.) due to the use of the Pocuné water. Rosario gave 184 ozs.; here, and in Córdoba, a great improvement has taken place in the lode.

ANTIQUIA.—The estimated loss for March was 112l. 18s., in addition to 20l. 12s. expended on capital account.

DEVON FRIENDSHIP .- The bottom levels and the stopes are looking very well, and the new dressing machinery is working in a most satisfactory manner. The latter has already enabled 12 hands to be discharged. The returns are now expected to more than pay costs.

discharged. The returns are now expected to more than pay costs. TRESAVEAN.—A large extent of tin ground is being opened for tributers in the western part of the mine, near Williams' shaft, at and below the 27 fathom level, and at the same level in the course of a week Gooch's and Caddy's lodes will be intersected, and when this is done not only will the returns be immediately more than doubled; but as the work progresses they will continue greatly to increase, and it is the opinion of eminent mining experts that these two intersections will double the value of the property at the shallow adit. Stoping has just commenced on Gooch's lode. The mine will be in fork to the 100 fathom level before the end of this month, which will give large reserves of tin, all of which will yield profit to which will give large reserves of tin, all of which will yield profit to

Mounts Bay Consols.—The returns of tin for the last month have about doubled that of the previous one, and one of the numerous lodes now being worked on by tributers has just returned a considerable quantity of tinstuff, producing more than 8 cwts. of tin to the ton—this result was the outcome of an operation conducted in the presence of Mr. R. Hunt, F.R.S., of the Mining Record Office, Jermyn-street, London, who expressed his great satisfaction at it. The No. 1 lode is daily increasing in value, and when the rise is completed, in a few weeks, an inexhaustible supply of rich tin ground will be laid open; additional stamp axles are being attached to the steam stamps, to deal with this immense increase. The manager is of opinion that the returns will be quadrupled. The outlay for equipment is now nearly completed, the monthly cost considerably reis now nearly completed, the monthly cost considerably re-

dated May 14 stated that the building of the new mill would be completed by the end of May.

Richmond, 6\frac{2}{3} to 7\frac{1}{3}: the week's run was \$15,000 from 295 tons of ore with one furnace. During the week the refinery produced doré bars to the value of \$20,000. The superintendent's weekly report upon the present condition and advance of the prospecting and dead work for the week ended May 7 states that the 1050 north-west drift from north-west drift from north-west drift from north-west drift from north-west drift has been extended 15 ft. Total 223 ft. In limestone.

Ruby and Dunderberg, 1\frac{1}{3} to 1\frac{1}{3}; the weekly report advises the completion of the new shaft, and of the machinery at the Home completion of the new shaft, and of the machinery at the Home Completion of this is shown in the three last telegrams, which have the result of this is shown in the three last telegrams, which have realised a very high price. It is said that driving toward the celebrated Middleton's lode is being pushed on with all speed, and it is expected the lode will be intersected.

TREVARREN UNITED.—At one of this company's mines the returns of tin are so satisfactory that profits are being made, and the lode is at this moment so rich that there can be no doubt they will, month by month, continue to increase. A private inspection just made states the value of the tin lode is nearly double that of last nonth. The results being obtained from the working of this mine have more than fully verified the reports sent from time to time. At another of the company's mines a new boiler is being added to the engine, which will enable it to cope with the large quantity of tinstuff now being sent to surface; and as the lode at the 30 fm. level increases in value as it approaches the rich shoot of ore gone down from the level above, similar and equally qualified results with those of the other portions of the property must be obtained.

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Net profits realised for month of February:—Tolima, £3373; Colombian Gold, £775; Western Andes, £800. The reserve fund of Western Andes now amounts to £6000. Dividends already paid, £4 per share.

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ERBERTON (WILD RIVER) TIN LODES, NORTH QUEENSLAND.

Every information relative to the progress of lode-tin mining in the Wild River district (termed by geologists "The Cornwall of Australia") can be obtained by communicating with the undersigned. CHARLES JENKIN.

"Herberton Advertiser" Office, Herberton, September, 1882.

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TYIUS MINING COMPANY.—The address of this company is required. If there no London offices the name and address of the representatives here will do

IN HILL COMPANY.—Will some correspondent state, through the Journal whether Tin Hill Mine (Limited) is the same as old Tin Hill that was worked on the Coat-book System. If not the same, if old Tin Hill is still in existence.—A. B.: Hawick.

—A. B.: Hawick.

STAMPS AND TRANSFER OF SHARES—"C. B." (Carlisle).—A Cost-book share transfer would not be exempt from the general rule—an adhesive stamp cannot be applied to an agreement after it is executed; and, assuming the seller to send an unstamped transfer, the fact of the buyer affixing a sixpenny postage stamp and cancelling it by signing across and dating it would certainly not convert it into a stamped transfer in the legal sense of the term. In the transfer of a limited company share the omission to state the consideration could not possibly exempt it from stamp duty. You will do well to consult your solicitor before attempting to economise to the prejudice of the revenue department.

department.

Received,—"C. C. and Co." (Walbrook)—"W. W. ;" Crowded out; inserted this week—"F. and B "—"E. S."—"W. B. P." (Bristol): If you will write on both sides of the paper we shall have to omit your communications—A Shareholders (who uses mourning paper because he could not speak at the meeting) should send his name and address, especially with personal statements—"R. T. M." (Lead Hills): Next week—"Economy:" No notice can be taken of unauthenticated communications—"A. T." (Wandsworth).

THE MINING JOURNAL.

Railway and Commercial Gazette.

LONDON, JUNE 2, 1883.

THE CHEMICAL PROPERTIES OF THE RETURN AIR IN MINES.

The Royal Commission on Accidents in Mines appears to have overlooked one most important item in the investigations in which they have been engaged during the last four years, and which has not yet terminated. In the preliminary reports they have given not a word has appeared with respect to the air in its chemical aspect, as it is found when it has performed its duty in neutralising the effects of gases and accords to the surface. Our attention has been effects of gases and ascends to the surface. Our attention has been drawn to this by the action of the Prussian Fire-Damp Commission, which is now actively at work, and issue notes of what is being done, showing that the investigations will be of the most thorough and practical character. One branch of enquiry in which great interest is taken is the chemical examination of the air from the upcast shafts of a number of German mines. The nature of the air of course of a number of German mines. The nature of the air, of course, would depend a good deal upon the gases that are given off, and in some mines there would be scarcely any, and in others a considerable quantity. As a rule, however, the German mines do not give off anyquantity. As a rule, however, the German mines do not give off anything like the quantity of gas that a great many in this country do, for at not a few of these, even in the early morning, it is not an unfrequent thing for the men to waft the gas away with their caps and jackets before commencing work. It may, therefore, be fairly assumed that were the return air in some of our mines examined it would be found to contain a much larger proportion of fire-damp than any of the mines in Germany. Yet we are told that Dr. SCHOUDORF, of the Bochum Laboratory, found the air coming from the upcast shaft of a mine in Westphalia contained 105 per cent. of fire-damp, although the ventilation going on was at the rate of 30,000 cubic

feet of air per minute.
At another well-known mine in Germany the air was impregnated with no less than 1.5 per cent. of fire-damp, where over 500,000 cubic feet of air was sent through the workings every minute. Even these returns show how a mine might gather such an amount of gas, cubic feet of air was sent through the workings every minute. Even these returns show how a mine might gather such an amount of gas, owing to an interruption of the ventilating current, that would lead to an explosicn in a very short time. This will be evident when we repeat that a mixture becomes in the highest degree explosive when the fire-damp is one-ninth or one-eighth of the total volume. Therefore, by chemically examining the return air the state of the mine, so far as gas is concerned is ea-ily ascertained. If there is a high percentage of gas it shows that the ventilation is not sufficient, and that the mine is by no means a safe or healthy one, and that an immediate remedy should be appied in the shape of an increased quantity of fresh air being sent from the surface, or by splitting the currents. A record of the state of the air as it comes from the workings up the up-cast shaft of the principal mines in the districts in England and Wales that are termed "fiery" is highly desirable for many purposes and could not fail to result in improved systems of ventilation, and in increased comfort and safety to the workmen. The Royal Commission has not yet sent in its final report, and before doing so it is to be hoped that it will follow the example of the Prussian Fire-damp Commission by investigating the chemical properties of the air from the up-cast shaft of certain mines in districts where they are known to give off considerable quantities of carburetted hydrogen gas. We have no doubt the Home Secretary would look upon such an addition as a most valuable portion of the report, as we feel sure all our mining engineers would do also.

COLLIERY ACCIDENT RELIEF FUNDS.

That colliery accidents cannot be entirely prevented is acknow-ledged by all who are practically acquainted with the business of coal mining, so that to provide for the survivors when these calamities do occur would appear to be not only praiseworthy, but an imperative duty of colliers and colliery owners alike; for it is an indisputable fact that although the public come forward and subscribe liberally upon the occurrence of these unusually fearful accidents, which result in the sacrifice of many lives, by far greater misery is caused by the more frequent fatalities which deprives but one or two families of their bread winners. It is to meet these cases that the fatal accident relief societies have been proposed in various districts; for, as it is truly said these associations will provide not only for the few fatal accidents which awaken public sympathy, but also for those minor cases which at present escape attention. The object of the minor cases which at present escape attention. The object of the Midland District Miners' Fatal Accident Relief Society is to provide for the widows and children of married members, and for the payment of legacies to the relatives of unmarried members who may be killed by those casualties which are of such frequent occurrence in and about coal or other mines or quarries, and a sum to defray the and about coal or other mines or quarries, and a sum to detray the funeral expenses of members accidentally killed in and about the pits. This society, which it is explained, is essentially a workman's so-ciety, will relieve all the local clubs of the death-rate, and conse-quent liabilities, and will not interfere in any way with the present working of them. The committee earnestly recommend each and every member to look anxiously after the interests and welfare of the fund, and individually and collectively endeavour to further and advance and assist each other in carrying out the aim and objects of the society, and the principles laid down in the code of rules; bear-ing in mind that men who are dependent upon their own hand labour for the maintenance of themselves and families, are in duty bound

count of contributions, subscriptions, donations, or otherwise shall be applied towards carrying out the objects of the society, which, it is ex-plained, are to provide a sum payable on accidental death and for the relief or maintenance of the widows and children of ordinary members reiter or maintenance of the wildows and children of ordinary members who may be accidentally killed in or about coal or other mines or quarries. With regard to the benefits offered to the miners connected with the society, the rules provide that when any full member or half member meets with an accident causing loss of life, the funeral allowance shall be 5*l*.; there shall be allowed in addition for an unmarried full member, 10*L*; and for an unmarried half member, 5*l*.; and to the widow of a married member, the sum or 2*l*. 10*k* is addition. married full member, 10*L*; and for an unmarried half-member, 5*L*; and to the widow of a married member, the sum or 2*L*. 10s., in addition to the funeral allowance of 5*L*, and the sum of 5s. per week; the allowance to continue so long as the recipient conducts herself with propriety, to the satisfaction of the society. Any widow remarrying shall be paid the sum of 10*L*, in lieu of the weekly allowance; but such re-marriage shall not affect the allowance to the children. Notwithstanding the foregoing scale of allowances, the board shall have power, under special circumstances, and at their absolute discretion, on the application of the person interested, to commute the above allowances for such fixed sum as they may think commute the above allowances for such fixed sum as they may think reasonable. Each child of any married member, whose life may be lost through accident, shall receive an allowance from the funds of the society of 2s. 6d. per week. The payments to children to continue until the sons attain the age of 12 years, and the daughters the age of 13 years.

It must be obvious that such handsome benefits could not be offered in return for the comparatively small contribution of the working miners; but the stability of the society is ensured by the strength miners; but the stability of the society is ensured by the strength which it derives from its honorary members, who are interested in the miners' welfare. The rules provide that all persons shall be eligible for admission as ordinary members who are employed in the district in or about coal or other mines or quarries; and on payment of the contributions, hereinafter set forth, they shall be ordinary members, and entitled to the benefits of the society. All persons not being owners or lessors of mines and quarries, who assist in supporting the society with an annual subscription of not less than one guinea, or a life donation of not less than ten guineas, and all owners, lessees, occupiers, or workers of mines and quarries, who subscribe lessees, occupiers, or workers of mines and quarries, who subscribe not less than 12½ per cent. on the amount paid by the ordinary members in their employment, and all lessors of mines and quarries who shall subscribe annually not less than 10 guineas shall become honorary members. Honorary members have the right to take part in the proceedings at any meeting of the local agency with which they are connected, and are eligible to hold any office in the society; but they have not do not apply to any hongs of the local sections. are connected, and are eligible to hold any office in the society; but they have no claim to any benefit or emolument from the funds of the society. And there is a great inducement to acquire honorary membership from the advantages secured for one's workpeople, since if a member meets with a fatal accident while working at a colliery, or mine, or quarry, where the owner, lessee, or occupier is not an honorary member of the society, the benefits under the rules are reduced by 12½ per cent., or one-eighth.

The constitution of the society has much to recommend it, and the rules are framed with judgment and care, so that it may be anticipated that the society will prove permanently useful and successful, and afford all those philanthropically inclined a ready channel for contributing to the relief of the bereaved and destitute.

SCOTCH PIG-IRON WARRANT MARKET.

Mr. W. Wilson (Glasgow, May 31) writes: - The warrant market Mr. W. Wilson (Glasgow, May 31) writes:—Ine warrant market was flat during the past week, and the price another 6d. down. The shipments are good again for the week, and at Middlesborough also they are heavy. Buyers are, therefore, more confident. Another furnace has been lighted at Chapelhall, making a total in blast of 117; this gives a weekly production in excess of the average of any previous year. 511 tons have been taken from store here last week, and 249 tons at Middlesborough. Business was done during the past week at the following prompt cash prices:—

ndd 249 fon at Middlesorough. Busines
week at the following prompt cash prices:
Thursday, May 24.
No market.
Tuesday, May 29.
46/3, 46/3/4, 46/3
46/3, 46/3/4, 46/3
46/7, 46/3, 46/3
....
46/7, 46/3, 46/3 46/8 1882. 47/4 109 Frice of Scotch Warrants on May 28
Furnaces in blast in Scotland do. ...
Shipments of Scotch pig-iron for it week ending May 28. ... in Do. since beginning of year
Iron in store at this date. ...
Price of Middlesbro', No. 3, May 28
Furnaces in blast Middlesbro' dist. Middlesbro' Iron Imported at Grangemouth, week ending May 25
Do. do. since beginning of year ... 117 14,130 9,760 ... 11,943 ... 12,319 36/9 ... 119 ... 39/6 120 35/6 9,150 ... 2,220 ... 7,970 ... 3,720 102,992 ... 97,012 ... 120,532 ... 91,180

UNDEVELOPED IRISH BUILDING STONES.

When the union workhouses were first being erected a collection of Irish building stones was made by the Board of Works. The specimens of these stones during the late Mr. J. Beete Juke's lifetime were exhibited for public inspection in the Museum of Irish Industry; but since his geological collection was broken up they have been more or less out of sight. Among them were different Irish red granites. The Irish granites may be of metamorphic origin, or they may be of cruptive origin—that is, originally they were a molten mass, and were intruded into the rocks with which they are molten mass, and were intruded into the rocks with which they are now associated. Nearly invariably those of the eruptive class are the best suited for tool work, as in them are three planes of "splitthe best suited for tool work, as in them are three planes of "splitting," or "grain," while very often those of the metamorphic class have a tangled structure, and will not split easily or work kindly. The principal places for red granite in this country are the following:—South-East Wexford, where rocks of the metamorphic occur near Carne, and in surface blocks; while at Carnsore there is a very superior vein of the eruptive class eminently saited for tool work. On this vein a quarry might easily be opened, while the stone could be shipped from the new pier at Ballygeary. Very similar stone, and probably of the same age (Cambrian), occur at Tarmow, Blackrod Bay, County Mayo, and possibly in the County Donegal. Galway, however, seems to exhibit nearly the largest area of red granite, combined with the greatest variety. The larger amount of the rock is of the metamorphic class, but a considerable area to the westward is eruptive (Orney type) excellent stones being procurable in some is eruptive (Orney type) excellent stones being procurable in some places, such as Errisainogh and at McDara's Island. But it is in the vicinity of the town of Galway the greatest variety and handsomest stones could be procured; some are red, others grey, or of mixed red and yellow, or red, yellow, and green, also purple, mottled, or

monument, Leinster Lawn, in this city, are also found in Mayo and Sligo, between Castlebar and Coolaney, in the north-west and south Donegal, and near Pomeroy, County Tyrone. To the latter rocks, in Craigar Shessiag and Garraquin special attention may be directed, as the rocks are of the "Orney" type, and if a quarry were opened it would be within a few miles of the Pomeroy Railway Station. In this neighbourhood also, near Beragh and Moneymore, there are, besides a newer red granite, very similar to those of Zugnamoon, Kylemoor, County Galway. Of these red Irish granites that could be brought easiest to this city are those of Carnsmore and Pomeroy, while from Galway could be procured the greatest variety. The grey granites of Leinster, Dublin, Wicklow, Kildare, Carlow, and Wexford are well known. The handsome porphyry of Blackstair, for the maintenance of themselves and families, are in duty bound to lay by something to provide for their wives and children.

To entitle a society of this kind to support from the general public it must be shown to be essentially a benevolent society and altogether unconnected with trade questions, such as from time to time arise between masters and workmen. In this respect the Midland District Miners' Fatal Accident Relief Society affords by its rules all the guarantee that need be desired. Its operations extend and are confined to the districts of Derbyshire, Nottinghamshire, Leicestershire, and Warwickshire, and it is provided that all moneys received on ac-

ornamental work, judging from the mullions in some of the ancient

SOUTH-WESTERN COLORADO-THE SAN JUAN MINING REGION.

BY W. WESTON, M.E.

At this time, when there seems to be such a growing enquiry for suitable fields for emigration of our surplus population, and investment of our surplus funds, a few remarks on South Western Colorado by an Englishman who has lived on the frontier in that State since 1870 may prove of general interest.

Colorado is pre-eminently a mining state, and with her last years yield of \$26,000,000 worth of gold, silver, copper, and lead, stands at the head of the mining countries of the whole world. This yield will be enormously increased in 1883, owing to the fact that the SanJuan the richest portion of Colorado, has just been penetrated by the Denver and Rio Grande Railway, and thousands of mines have been brought into pay, whose ores, owing to the enormous cost of freight and supplies, were, prior to the advent of the railway, as so much waste.

In addition to this great yield of metals the coal output for last In addition to this great yield of metals the coal output for last year is rated at \$4,500,000, and this will be largely increased yearly, as some 17,000 square miles of coal land has just been made available by the above railway, whose through line to Utah and the Pacific coast was completed last month, and passes directly through the centre of these coal fields, which are said to rival those of Pennsylvania, both in extent and quality of the coal.

About seven miles from the line of the Denver and Rio Grande Railway, and 25 miles from the prosperous mining town of Ouray, there is a coal field as yet almost entirely undeveloped and unprospected, which from the surface outcrop is known to cover an area of at least 2000 acres, the coal being 30 ft. in thickness; and as this is in close proximity to the numerous gold, silver, copper, and lead

of at least 2000 acres, the coal being 30 ft. In thickness; and as this is in close proximity to the numerous gold, silver, copper, and lead mines of Ouray County, in the San Juan region, its importance can hardly be estimated. Then 100 miles from Ouray, and her mines, are the coal fields of Gunnison County, already estimated as covers the coal fields of Gunnison County, already estimated as covers. ing an area of 15,000 square miles, 3000 acres of this being anthracite, and the rest bituminous coal.

Two years ago these South-Western coal fields were unknown,

Two years ago these South-Western coal fields were unknown, and there was no railway in the region. A railway now runs through the centre of them, and last year 26,300 tons of coal were mined and shipped. What will be the magnitude of this coal industry in future is impossible to estimate. The Denver and Rio Grande Railway, as before stated, has brought thousands of gold and silver mines of the San Juan region into pay, which before its advent were worthless; smelters and other reduction mills are being erected, coke ovens are being built, fertile valleys hitherto neglected are being turned into fruitful farms; thousands of heads of stock are being driven n, and the South-Western portion of the State, which is the richest in the noble metals, is undergoing a complete revolution. Such is the difference between building railways in the Old and New World. Here they are built when the press of actual business demands it; there, they are built to make the business and build up the country.

ness demands it; there, they are built to make the build up the country.

The beds of iron ore in close proximity to these coal fields are numerous and practically inexhaustible and fresh ores are constantly being discovered. These, up to a year ago, were looked on by the prospector as worthless, and I myself, prospecting in San Juan in 1877, have passed over many a one, without taking the trouble to put a stake on it. But the advent of the railway is bringing these, too, into request. In 1882 Bessemer steelworks were crected in 1892 have and 1700 tone of steel rails turned out, and other kinds of Pueblo, and 17,000 tons of steel rails turned out, and other kinds of manufactured iron and steel bar iron for rails in mines, 22,000 kegs of nails, and 21,000 tons of steel ingots.

of nails, and 21,000 tons of steel ingots.

The New York Mining Record, reviewing the increased mineral product of the State, in an editorial headed "Colorado as a factor in the field of Mining Industry," says as follows—"It is because of the mineral resources of Colorado, and their steady development during the past five years, that there are to-day 3088 miles of railway in the State, of which 880 miles have been constructed during the last year, and of which nearly 2000 miles have been built since the re-monetisation of silver in 1878. From the same cause almost directly has it come to be that there are about 1,000,000 sheep in the State, worth \$2,500,000, giving a wool clip last year worth the State, worth \$2,500,000, giving a wool clip last year worth \$1,000,000, while furnishing meat worth \$350,000. From the same influence has it been that the wheat crop of the year reached 1,533,740 bushels, oats 1,083,287 bushels, corn 600,000 bushels, and barley 261,185 bushels, and that the plains and valleys of the State swarm with herds of cattle, assessed at \$5,435,616, and that as much as \$3,138,000 is the assessed value of the horse property in the State. From the past year's aggregate of mining results in Colorado should be drawn a pregnant lesson as to the vast importance to the country of its possession of so much mineral wealth awaiting development."

of its possession of so much mineral wealth awaiting development.

Of the \$26,000,000 produced last year by the State of Colorado,
some \$17,000,000 were produced from the phenomenally large and
rich silver-lead deposits of Leadville, and now another similar field rich silver-lead deposits of Leadville, and now another similar field of ore as to form, an immensity of the deposit, has been discovered in what is known as the Red Mountain district in Ouray County, and only eight miles from the town of Ouray. Last August a prospector, while hunting deer, sat down on a log to rest, and, picking up a stone, was astonished at its great weight, but on breaking it open it proved to be galena. He then went to work, and soon discovered the enormous body of ore now known as the Yankee Girl Mine, and in September sold it for \$125,000 cash, and during the past winter four men have taken out, sacked up, and sold 1000 tons of ore, which netted the owners 11L per ton in St. Louis, over 1000 miles distant by rail. The altitude of this mine is 10,300 ft. above sea level, and, as it was not worked to any extent till October, snow was deep on the ground before the excitement began; but, since then, a dozen big paying mines, of the same kind as the Yankee Girl, have been discovered, the prospectors living and working in 10 to 20 ft. of snow. Four towns have been laid out, 300 to 400 houses built, and roads in course of construction from Ouray to the mines. have been discovered, the prospectors from an account of the been laid out, 300 to 400 houses built, and roads in course of construction from Ouray to the mines. As far as can be determined by the work done to date, the beds of ore vary in thickness from 2 to 40 ft., and the ore is of two kinds—

ore vary in thickness from 2 to 40 ft., and the ore is of two kinds—galena and an antimonial copper glance, these ores carrying from 20 to 200 ozs. of silver to the ton, with some gold and a large percentage of copper and lead. The ore is solid, and more resembles a furnace product than that usually found in vertical fissure veins. It is estimated that there will be at least 5000 miners in the Red Mountain district this summer, and the development of immense ore bodies bids fair to astonish the world, as did Leadville. When I was there last January many of the prospectors were living in tents in the snow, and sinking shafts to strike the ore beds. It will give some idea of the orebody and its solidity when I state that at the "Yankee Girl" Mine I saw two men breaking down the ore, and two men sacking it, and these four men loaded a mule ore, and two men sacking it, and these four men loaded a mule train daily with 10 tons of ore. No hand-dressing was done, the ore being simply broken up small enough with a rock hammer, and then

shovelled into sacks.

In San Miguel County, adjoining Ouray County, are some wonderful gold and silver mines, notably the Mendota, Sheridan, Smuggler, and Union, adjoining claims on one vein, the ores sold from these yielding from 108 ozs. silver and 1 oz. in gold per ton to 561 ozs. silver and 16 ozs. of gold per ton, these being the highest and lowest returns of ore sold. The ore sold from the Smuggler, however, actually averaged over \$500 in gold and silver per ton. The whole of this San Juan is as yet in its extreme infancy, from the fact that until two years ago it was 300 miles from a railway, and the Ute until two years ago it was 300 miles from a railway, and the until two years ago it was 300 miles from a railway, and the Ure Indians occupied the Uncaprahgre Valley at the base of the mountains where the mines are, and the inaccessibity of the place, added to the numerous scares from marauding redskins, effectually kept capital out of the country. "Mais nous avons changé tout cela," the United States Government has transplanted all the Indians to a far distant reservation, and the Denver and Rio Grande Railway are running through trains from Denver to Utah, and the Pacific Coast, passing through the Uncapahgre Valley, and within 35 to 40 miles of the mines of Ouray County, the richest in this now celebrated region. celebrated region.

The beaefit which this plucky line of railway has conferred upon

the State of Colorado is incalculable. The Union Pacific monopoly which was only a through line to California, running through the northern or plains portion of Colorado, did the State more harm than good; but the Denver and Rio Grande has crossed mountain than good; but the Denver and Rio Grande has crossed mountain ranges at altitudes of 9000 to 11,000 ft. above sea level, penetrated into the heart of the richest mining region of Colorado known as San Juan, made paying mines of thousands of prospects whose ores were until then so much waste, opened up new coal fields, populated the fertile valley of the Uncapahgre with farmers and stock raisers, linked this mining region with Utah and California—its natural mart of supplies—and broken the Union Pacific monopoly by giving a line to California via Denver, through the grandest scenery of the Bocky Mountains. Indeed, it has been aptly named the "Scenic view of America."

Line of America.

The San Juan mining region, which is on the Pacific slope of the Great Divide, or main range, of the Rocky Mountains, until last month was dependent for supplies on the Atlantic slope—a very anomalous condition of things—now, however, it will get its breadent firled fruits, &c., from the fertile State of Utah, its next door neighbour, and fresh fruit and mining supplies and machinery from San Francisco. At Ouray, the principal town of San Juan, we are already receiving 91. per ton more for our ores than we did in 1880. Owing to the reduction in freight labour, and supplies caused by the already receiving 56. per ton more for our ores than we did in 1880. Owing to the reduction in freight labour, and supplies caused by the advent of the Denver and Rio Grande Railway, and as a branch is about to be built from the main line to Ouray, a distance of 35 miles, the cost of turning the ore into dollars will be still further reduced about

to be built from the main line to Ouray, a distance of 35 miles, the cost of tarning the ore into dollars will be still further reduced about 1 per ton. Thus, a tremendous stimulus has been given to prospecting for fresh mines, and to the production of ore, for hundreds of poor men who have been hanging on for years to their mining claims, whose ores would not pay a margin to ship, and with difficulty being able to scrape money enough together to enable them to do the yearly assessment work prescribed by law, suddenly find themselves in possession of paying mines, owing to this immense reduction in the cost of producing the ore and getting it to market. I have mined in San Juan since 1877, and I state, as a positive fact, that the region is only half prospected; important discoveries of gold, silver, lead, copper, iron, coal, and other valuable minerals are being made daily, and will be made for the next 10 years to come. It is a new country and a fabulously rich one, and, therefore, unequalled as a field for the capitalist, artisan, miner, farmer, prospector, or mining engineer. To a young man with average brains, mascle, and energy, and, say, 300%. In his pocket, here is a grand opening. Let him take a course of instructions in the assaying of he ores of gold, silver, and lead in the Royal School of Mines if possible, or, if not there, in any first-class school of assaying in London. Then let him "strike out" for San Juan and spend a summer on the hills. He can get a partner out there who understands prospecting, and if they find anything of real value he will have no difficulty in selling it, or getting capital to work it by giving up an interest in it for money to be spent in development.

The mountains swarm with big and small game, and the streams with speckled trout, and the climate is as healthy as any in the world.

The Mining Laws of the United States and the State of Colorado

The Mining Laws of the United States and the State of Colorado The Mining Laws of the United States and the State of Colorado are as near perfect as they can be made, and most liberal. The law gives the discoverer of a mineral lode or vein 1500 ft. in length by 300 ft. in width along the course of the vein, compelling him to do annually \$100 worth of work in order to hold it, or if he do \$500 (1001.) worth of work, giving him an United States patent, which is absolute title for ever.

THE CLEVELAND IRONSTONE MINES-THEIR RECENT DEVELOPMENT AND IMPROVEMENT IN THE METHOD OF WORKING.

BY C. T., HUTTON-LE-HOLE.

BY C. T., HUTTON-LE-HOLE.

The Cleveland iron trade is entirely the production of the present century. It is, however, evident from the heaps of half-smelted iron and slag to be found on the vast North Yorkshire Moors (near to the remains of Roman camps) that the Romans had extracted iron from the stone. In Dugdale's Monasticon it is recorded that in the year 1209 there was an iron forge in the Vale of Rosedale belonging to Robert De Stuteville. The birth of the present trade, so far as Cleveland is concerned, cannot date further back than the year 1850, sthough it is extact that in the years 1811 and 1836 samples of the although it is stated that in the years 1811 and 1836 samples of the ironstone were sent to the Tyne ironmasters who pronounced it to be worthless rubbish. In 1848 Messrs. Bolckow and Vaughan tried it at their Witton Park Ironworks, in the county of Durham, with such satisfactory results that a small regular supply was sent, but it was not until the year 1850 that the Cleveland Main Seam, now so extensively worked, was discovered. Since then up to the present year about 154,000,000 tons of ironstone has been worked out of the Cleveland and North Yorkshire district.

and North Yorkshire district.

The mines at present worked are situated south of the River Tees in the vicinity of Eston, Marske, Guisborough, Skelton, Brotton, and Loftus, and at Rosedale and Grosmont. This district is now studded all over with villages (many lighted with gas) where 20—nay, in some cases only 10—years ago the only houses were those inhabited by the farmer and his labourers. On the seacoast also the aspect of things must have strangely altered even within the knowledge of men now in their prime, for at Saltburn and on to the wild searent gally of Skimmingroup, where 50 years ago an extensive searent gully of Skimmingrove, where 50 years ago an extensive snuggling trade was openly carried on, the coast is now occupied by the busy miner, and blast-furnaces, engine-houses, and other equally the busy miner, and blast-furnaces, engine-houses, and other equally unpicturesque buildings stand out on the cliffs. The present output from these mines amounts to over 2,000,000 tons per annum. The mines which have been lately opened up have been fitted up upon a much larger scale than those of an earlier date. The Qumpsey, a newly opened mine near Brotton, when fully opened is intended to produce 1500 tons each 8 hours worked, and at the Upleatham Mines about 1200 men are employed. It is computed that the district now opened up alone will last for another 100 years (at the present rate of production) besides which there are large tracts of ground as yet untouched which the Cleveland Extension Railway, now being conuntouched which the Cleveland Extension Railway, now being constructed, will open out. It has been estimated that each blast-furnace requires about 70 miners to supply it when in blast with

Of late years great improvements have been made in all branches of mining operations, both in the ventilating and mode of working underground, and also in the mechanical work; and the Cleveland mineowners have not been slow in adopting the improved appliances which this age of progress has placed at their command. The result is that during the past few years new and mechanical means have been introduced into many departments with success to the mineowner, and additional comfort and safety to the miner. Perhaps it will not be out of place to refer here to some of the most important changes which have taken place in the way of working the ironstone. We will take four intenses. We will take four instances.—(1) the means of ventilating the mines;
(2) the introduction of compressed air as a motive power; (3) the
system of mechanical drilling of the shot holes (which until very

recently has been done solely by hand labour), and (4) the haulage of the wagons of ironstone by endless rope on the underground main roads instead of using horse-power.

(1) Ventilation.—The early or primitive means used was that of hanging a fire-lamp at the top of a bratticed shaft, or in the case where the mine could boast of two pits at the top of the upcast shaft, but as the area of the workings extended and the number of the property of the upcast shaft, but as the area of the workings extended and the number of men employed increased the air became increasingly more vitiated, the underground furnace became universally adopted. The furnace in its turn, after many years use, is also rapidly becoming obsolete as the many advantages of mechanical ventilation are better known. With the furnace, under the most favourable circumstances, 93 lbs. of coal per hour was required to realise 1-horse power in the air withdrawn. Whereas with the Guibal fan the consumption of coal Varies from 10 to 16 lbs. per hour per horse power of ventilation produced. The saving in fuel in this system, as compared with the furnace, is sufficient to repay in two years the cost of the appliances. There are two systems of mechanical ventilators used in this district. The centrifugal principle, as in the Guibol and others, and what is known as the displacement machines, such as Cook's, which exhausts

air by means of chambers of varying capacity. Much depends upon whether the mine affords favourable conditions for testing their capacity, for instance a fan at one mine might yield as high a percentage of useful effect as 75, while a similar fan at another mine would, perhaps, only produce 25 per cent. Explosions of gas in these mines are of very rare occurrence, and are usually due to the oily vapours exuding from the shales above. The Upleatham Mines are ventilated with two of Cook's powerful ventilators, each of which is 11 ft. 6 in. diameter, and 15 ft. long. The two machines send into the mine 50,000 cubic feet of air per minute each.

11 ft. 6 in. diameter, and 15 ft. long. The two machines send into the mine 50,000 cubic feet of air per minute each.

(2) Compressed Air as a motive power is now extensively applied in underground work; the air is usually compressed at surface to 45 or 50 lbs. per square inch, and conveyed down the shaft in pipes, and thence along the levels up to the face of the ironstone to work either the mechanical drill or the haulage by endless rope.

(3) Mechanical Drilling has only been introduced into the Cleveland mines during the past six years. The ordinary mode was—and is now at many mines—by hand drilling, by which system the miner gets upon an average 5½ tons per day. Each ton of ironstone requires about 6 ozs. of powder to blast it, and this powder has to be paid for by the miner. The mechanical drill in use is that patented by Mr. W. Walker, of Saltburn, which was designed specially for the Cleveland ironstone, and the other machine is on the percussive principle. The Walker machine, with a steam pressure of 40 lbs., drills holes 2 in. in diameter at the rate of 2 ft. per minute, and at one mine one of these machines is getting 80 tons of ironstone per shift of eight hours. Two skilled miners with this machine will do the work of nine men by the old hand system. The tons of ironstone per hole drilled by the machine is about three. Each hole is from 4 ft. to 5 ft. deep. The actual time of drilling is under 1-20th of that necessary for the same operation by head. deep. The actual time of drilling is under 1-20th of that necessary for the same operation by hand. The value of this system in the outlying districts where skilled men are scarce cannot be over-

(4) Haulage by the Endless Rope System has been in vogue since 1867, but more generally adopted at these mines during the last few years. It is very economical, and the power required to work it is small compared with that used in other systems, the slow and continuous movement resulting in an almost total absence of friction, which reduces the wear and tear of the rope, wagons, &c.

GOLD MINING, AND ITS MANAGEMENT-No. VI.

By THOMAS CORNISH, M.E. (late of Australia). Author of "Gold Mining: its Results and its Requirements." "Our Gold Supply: its effects on Finance, Trade, Commerce, and Industries, &c."

In Sandhurst (Victoria), the noted quartz mining region of the colony, having been many instances of marked success in gold mining, not only to many joint-stock companies, but several private mino-owners, who have been exceptionally fortunate in striking rich reefs in their claims, have become millionaires, and are still in receipt of rmous incomes.

enormous incomes.

The system inaugurated for developing the resources of the district was in the early days such as tended to retard rapid development, and caused much waste of time, capital, and labour. The claims were too small, and consequently caused the sinking of more shafts than was necessary for efficient working. In many places 1 have seen 10 or 12 shafts sinking on or for a lode where there only oug t to have been one—a good main shaft, a suitable size for going down to a great depth. Many companies were in existence for years sinking a shaft to a depth of 300 to 400 ft., dawdling over the work by only employing a few men, where with energy and at less cost the by only employing a few men, where with energy and at less cost the same work might have been done in a year.

same work might have been done in a year.

When progressive or prospecting labour is determined on it should be pushed on with all expedition possible, as the quicker the results are proved the better and cheaper will it be for those who have to pay for it. Thus in shaft sinking as many men should be kept below as can conveniently work; there is no more surface labour required for four, five, or six miners working in a shaft than there is for two, while more than double or treble the work gets done during the same time.

In quartz mining it is generally necessary that the main shaft should be kept continually sinking, while levels should be opened for development at intervals of from 60 to 100 ft., as experience may guide the manager. The neglect of keeping progressive work well ahead is oftentimes attended with much loss, not only in time wasted but in depreciation of the value of the mine.

As an instance of this, I remember a noted mine which had paid very handsomely in dividends for years amounting to something between 300,000%, and 400,000%, and on its success the stock in the company and its tributes had become inflated to a price represent-ing nearly 1,000,000l. I inspected the mine in 1872, and on reaching the bottom level at 600 ft. I noticed, from the state of the shaft, that no sinking had been carried on for a long time, and found on in quiry from the mining manager that it had been standing at that depth for six years. On examining the workings I could soon perceive that the bulk of the good quarts had been worked out, and that no preparation had been made to keep up the supply at deeper levels. The management had been defective, and the mine had evidently been worked for market operations more than effective workdently been worked for market operations more than effective working. The consequence was when the state of the mine became known the value of the stock fell nearly 800,000l. in a few months, or more than enough to pay the entire wages of all the 6000 miners working in the Sandhurst district for 12 months. Now, the loss of that money, or any portion of it, was not really losses in mining; but merely losses in gambling and speculation. The mine had for years been a wonderfully profitable one, and if it had been worked according to the principles of legitimate mining the stock never could have been subject to the chances of such a sudden and enormous depreciation. mous depreciation.

One of the greatest wonders in connection with gold mining in-dustry, when any new discoveries have been made, and a rush sets in for investment, is the surprising rapidity with which mushroom authorities spring into existence. Men who by a fluke have made a lucky speculation in shares, or obtained a concession or claim in or near a locality where gold might have been seen or expected to be found, arrogate to themselves the position of oracles or authorities on the subject of gold mining, and impudently assume a knowledge of an industry that can only be acquired by long practical experience

an industry that can only be acquired by long practical experience and intelligent application.

Men who never saw a gold mine, nor know nothing of the proper method of working one, will write reports and undertake the control of works of which they are completely ignorant. The natural result follows that large sums of money become squandered in the purchase of mines at fabulous prices, and afterwards wasted in disgraceful management. At the expense of the shareholders and their reformance these sums of the shareholders and their unfortunate dupes these mushroom authorities enjoy a butterfly existence during a brief period of sunshine (while the money holds out), when they suddenly collapse, and fall into the obscurity from whence it is a pity they ever emerged. The mischief created by these new chum authorities on gold mining is, however, incalculable, is not merely the money they waste in gaining experience making a muddle of everything at other people's expense, but their utter incapacity brings discredit upon the industry of gold mining generally, and retards the development of legitimate mines by experienced persons.

The reports which have appeared from some of the so-called ma-nagers of mines in India and West Africa from time to time since the rush set in for mining in those places have been enough to condemn the writers as utterly incompetent for the positions they have undertaken, and the shareholders are beginning to find out to their cost the mistake they have made in their selection of directors and

managers, whose chief qualifications have been bumptiousness and entire ignorance of the practical details of gold mining. In the Indian mining, of which such a furor was made without sufficient cause, there was never anything to show, not even from the first reports of Mr. Brough Smyth, that the mines would ever meet the sanguine expectations of the vendors and shareholders. The reports and prospectuses as they appeared when analysed by any practical miner were found to contain no substance or facts to go upon; it was mostly bunkum and moonshine, based facts to go upon; it was mostly bunkum and moonshine, based upon suppositions and theory. Very little, or, in many cases, no

practical development had been done, some outcrops or blows of hungry looking quartz were magnified into permanent reefs, without having been sunk on or prospected a foot below the surface. Assays were made from picked samples of stone, on which were based calculations of profits of the most wonderful kind. Clever mathematicians produced an array of figures of such charming exactness that were quite amusing to read, and that had such a fascination upon admiring shareholders that many had, no doubt, built their ethereal castles as to how the enormous profits were to be enjoyed in the future, little dreaming of the utter collapse of the brilliant prospects as shadowed forth by the vendors and directors. There was nothing in any of the glowing reports and prospectuses as issued at the time to warrant any of the ventures being considered (by practical authorities) otherwise than as prospecting mines, and

as issued at the time to warrant any of the ventures being considered (by practical authorities) otherwise than as prospecting mines, and not worth paying large sums of money for the privilege of looking for gold in an entirely new mining country.

Prospecting for gold is a very legitimate undertaking when capital and labour are united and judiciously expended in developing the resources of any likely looking country. The best gold fields in Australia and America were discovered by energetic prospectors who pushed forth into the bush, forests, and mountains beyond where others had been. There is a wide difference between a prospecting mine in a new country and a well developed, or even a partially developed mine in a well-known mining district. Had the Indian mines been treated as purely prospecting mines until well developed and proved payable or otherwise, the work might have been done at a very moderate outlay in comparison to what has been so lavishly and injudiciously expended; high born hopes would never have reached the pitch they did, nor would the wail of losses been so great as is now the case, after so many failures.

the pitch they did, nor would the wan of the case, after so many failures.

I know of some practical men who were engaged in India, who, because they honourably advised their companies not to waste more money in what they believed would be a fruitless effort in prospectionally advised the directors, and in some cases were rewarded with ing, offended the directors, and in some cases were rewarded with dismissal for their honest opinion. When a doctor is compelled to tell his patient, or a lawyer his client, that his case is hopeless, he only offends the individual patient or client; but when a practical mining engineer reports unfavourably against a mining property he is sure to offend the great bulk of shareholders and directors who

SOUBACK AND CATIR ALAN MINING COMPANY .- A reference to the report will show what a large amount of work has been executed for the purpose of opening out the mines at several points so that large and regular neturns must be made, a far preferable course to that so often adopted of making early returns which cannot be kept up. The company has set a good example in bringing home sufficient quantities of rich and poor ore to demonstrate beyond all question the richness of the mines they have the over heaving been question the richness of the mines they have, the ore having been sold at from 7l. 19s. 6d. to 1472l. per ton. Such a large quantity of ore is now available as will enable the company to keep up regular and increasing dividends. The directors are now inviting subscriptions for their EIGHT PER CENT. BONDS, repayable in eight years with 50 per cent. bonus, that is at 15l. for each 10l. bond, or if the bondholders prefer it they can, after June, 1884, require repayment at par at six months notice. The direction is one of the strongest which has appeared on a mining company's prospectus, embracing amongst others the Minister of Public Works at Constantinople, Earl Poulett, the ex-Governor of Newfoundland, and Admiral Hobart amongst others the Minister of Public Works at Constantinople, Earl Poulett, the ex-Governor of Newfoundland, and Admiral Hobert Pasha. It may be mentioned that the latter gentleman, who is at present residing in London, was present at her Majesty's levee on Monday in the Diplomatic circle, accompanying the Turkish Ambassador, and that Hobart Pasha and the Hon. Mrs. Hobart-Hampden had the honour of dining at Marlborough House on Sunday evening. As the Pasha is Musheer of the Turkish Navy, and one of the Constantinople directors, it cannot be doubted that he would have great influence in Turkey to secure the proper recognition of the company's rights, so that it is very reasonably urged that full confidence may be felt that the funds subscribed will be judiciously expended. The prospectus will be found in another column.

ELECTRICITY AS AN ILLUMINANT.—At the recent Gas Managers' meeting at', Cincinnati, the President—Mr. J. B. Howard, of Dubuque, Iowa—remarked, in the course of his address that whether the new candidate for popular favour as an illuminator shall ever attain to any degree of permanent success depends upon its possessing the qualities which he named; but for outdoor lighting and for large buildings it has already pressed to the front, and is at the present time in use in most of the larger cities of the Union. The lights, however, have to be carefully tended, and an engineer kept for that purpose. Candour compels us, however, to admit that the electric light is a very beautiful and brilliant one, and perhaps has a place or sphere peculiarly its own, which it may attain and hold. To be sure, the incandescent light can be turned off and on like gas; but one peculiarity of electric lighting is the fact that, as the size of the light is reduced the proportionate cost of producing it is very largely increased; and, as we view the entire field at present, there is nothing in the electric light that gas companies may fear.

PREVENTION OF FLOODS.-Much valuable information concerning the conservancy, prevention of floods, drainage, and water supply of rivers is given in the anniversary address of the President of the Norwich Geological Society—Mr. J. H. Blake, of Her Majesty's Geological Survey, A.M.I.C.E., F.G.S. The subject is systematically and thoughtfully treated, and will well repay careful study.

MANUFACTURE OF IRON.-For so treating common iron whilst in improved in quality, and increased in bulk, Mr. W. Clarke, of Birmingham, proposes to apply to the iron whilst under the process of puddling a mixture consisting of about 3 lbs. of Tafna ore, an ore very rich in metallic iron found in North Africa, or of other ore possessing similar constituents, such ores being found also in Algeria and in Spain: 3 lbs. of iron prittes, commonly known as appropered. sessing shifter construents, such ores being found also in Algeria and in Spain; 3 lbs. of iron pyrites, commonly known as purple ore or "Blue Billy;" 4 ozs. of wood sawdust, and 8 ozs. of bay or rough salt. These materials being reduced to powder, and thrown upon the iron whilst in the boiling state in the puddling furnace are sufficient for one charge or heat of 4½ cwts. of pig iron. The result is a highly improved quality of iron thoroughly cleansed from phosphorus and a larger yield from the same charge of common iron.

IMPROVED BOILER COVERING. -With a view to prevent the radiation of heat from steam-boilers Messrs. ROBERTS and TRAVIS, of Fails-worth, propose the use of a layer of ground or otherwise disin-tegrated cork (which is a very efficient non-conductor of heat) in tegrated cork (which is a very efficient non-conductor of heat) in combination with the ordinary composition or material usually employed. In carrying out the invention in connection with a steamboiler they first coat the upper surface with a layer of the ordinary composition or material, such layer being much thinner than usual. Over this coating, when dry, they lay on a coating of 1 in thick (more or less) of the ground or disintegrated cork, pressing the same down closely, and over this they lay on a second coating of the ordinary composition or material, so that there is a cavity of about 1 in. thick between the two layers of the ordinary composition or material, which is filled in with the ground or disintegrated cork pressed closely together; and it will be found in practice that the use of this material (ground cork), in combination with the ordinary composition or material, in the manner described, will most effectually prevent the loss or radiation of heat from the surface of effectually prevent the loss or radiation of heat from the surface of the boiler

CONVERTING CAST-IRON INTO STEEL .- To convert iron castings into steel or steely iron castings, by a simple method and inexpensive apparatus without using ore, ashes, or any other materials to sive apparatus without using ore, asnes, or any other materials to mix with the castings whilst they are being converted, Messrs. Boxp and Whiteley, of Tow Law, Durham, propose to construct an oven containing a chamber or a number of chambers, which shall be so arranged that the flame can only pass around the outside of the said chamber or chambers. They place the castings, which are made of cast-iron, into the chambers, the ends of which are afterwards sealed up. The furnace under the oven is then ignited, and the castings kept at a certain head for a suitable length of time, whereby they

THE BRATSBERG COPPER COMPANY.—The statement which Capt. Daw, the manager, made to the shareholders who assembled to meet him on Thursday, was altogether satisfactory, and even exceeded the anticipations of those who had already formed a high opinion of the value of the property. The chief points in Capt. Daw's statement are as follows:—The mines are turning out much better than was expected, and this year's production will be considerably better than last. A steamer is about to be placed on the lake, which will greatly facilitate the transport of the ore; a canal is proposed to be made, which, when 9 miles are made (which will be in about a year), will effect a saving of 1000l. a-year in the carriage of ores, and when completed will effect a saving of from 3000l. to 4000l. a-year; there is an ample supply of water and plenty of timber; and, what is perhaps more important than all, there are more than 200,000l. worth of reserves, valuing them at the present price of copper. During the past year three times as much ore has been discovered than taken away. But perhaps the best proof of what the mine can do is to be found in the fact that in the first year's working by the present company the mine paid a dividend of 5 per what the mine can do is to be found in the fact that in the first year's working by the present company the mine paid a dividend of 5 per cent., and the directors have no doubt whatever that this dividend will be largely increased. One gentleman at the meeting, who has examined the property, expressed his belief that when thoroughly developed Bratsberg will be found to be as valuable a property as the celebrated Cape Copper Mine.

Fox's Corrugated Flues.—An interesting series of official trials of the strength of these flues have been conducted for several days in succession at the Leed's Forge Companys Works, under the direction of Mr. T. W. Trail, chief engineer surveyor to the Board of Trade, and Mr. Peter Samson, assistant chief engineer surveyor to the Board of Trade, for the purpose of establising new Government rules for the pressures to be carried in the boilers of passenger steamers obtaining the Board's certificate. A great many former tests of the different constructions of boiler furnace flues, including Fox's patent corrugated flue, have been made at their works; but those of Fox's patent tested last week showed that very great advances as to their powers of resistance and other qualities have resulted from the methods of manufacture now being carried out entirely by the new and specially patented machinery laid down entirely by the new and specially patented machinery laid down during last year. The advantages of machine-made flues are proved to be such that it is considered a new rule should be at once laid down by the Board of Trade to their surveyors and shipbuilders, showing the extension of pressure these flues are entitled to carry according to the exhaustive series of trials which have been made.

MIDDLESBOROUGH BASIC STEELWORKS. - The first blow was made at the North-Eastern Steelworks on Thursday. The works are specially designed for the manufacture of steel from Cleveland ore. The phosphorus contained in the iron of the first "charge" of the The phosphorus contained in the iron of the first "charge" of the converter at yesterday's experiments was between 3 and 4 per cent.; and careful analyses of the foreign substances afterwards found in the newly-blown steel resulted in the discovery of only 2 per cent., which is about one-fourth of the quantity usually contained in steel made from the purest hematites. The experimental "blow" was considered eminently successful, and was witnessed by Mr. Gilchrist, one of the patentees. Five tons of ingots were blown. The machinery in the works is found to meet the requirements of a firm determined to produce pure steel, the works having been laid out with a view to making rails, billets, slabs, &c., for plates of all descriptions and qualities.

Tipton Green Collier Company.—The final meeting has been held for the purpose of hearing a statement as to the winding-up of the company and other matters. Mr. John Shepherd presided. Mr. J. C. Malcolm, the solicitor for the liquidators, was present. The report and balance-sheet of the affairs of the company showed assets available for distribution amounting to 1708t. 12s. 11d., out of which a first and final dividend of 10\frac{1}{3}d. had been paid. There being a small surplus left, a portion of it was presented to the liquidators, and the remainder, after a payment had been made on account of rent of room, was granted to the small loan owners who had suffered. The report was adopted, and the meeting handed over the books, documents, &c., to the custody of Mr. Malcolm. The debtors' discharge was granted. charge was granted.

DERBYSHIRE AND CHESTERFIELD INSTITUTE OF MINING, CIVIL, AND MECHANICAL ENGINEERS.—At the meeting on Thursday next the papers open for discussion will be Mr. Sydney F. Walker's "On the electric light and transmission of power by electricity;" and Mr. T. G. Lee's, "On a self-acting arrangement for unloading and loading colliery cages (Fisher's patent)." The papers read or taken as read will be "The Kœpe system of winding at the Bestwood Collieries," by Robert Wilson, Assoc. M.Inst.C.E. (communicated by Mr. Howard Allport); and "Buckett's caloric engine," by Mr. John Oliver. by Mr. John Oliver.

by Mr. John Oliver.

Tin Production of the World.—At the annual meeting of the Royal Institution, on Tuesday, the President—the Earl of Mount Edgeumbe—stated in his inaugural address that since 1825 the total production of tin throughout the world had increased more than threefold. Last year it was:—Cornwall, 9400 tons; Banca and Billiton, 8599 tons; Straits of Malacca, 11,705 tons; Australian, 10,067 tons; Peruvia and other countries, 500 tons = 40,271 tons. This scarcely supports the too frequently repeated assertion made by Cornishmen that the Australian tin deposits are unimportant.

New Terras.—This mine is now again attracting attention. The company congratulates itself on having acquired one of those rare prizes in which success is already ensured. It will be remembered, writes a correspondent, that some years ago, previous to the great and unprecedented fall in the price of tin, the discovery made here caused a great sensation, and the shares went to about 700 per cent. premium. Thousands of pounds worth of tin were sold shortly after the discovery, and the company entered the Dividend List. The subsequent great fall in the price of tin, combined with careless management, caused operations to come to a standstill, and until the present company took over the property last year nothing had been further done; they are now working vigorously, and before very long this must rank amongst the most successful tin mines in the 8t. Austell district, not even excepting Wheal Eliza, the dividends in which once reached 100 per cent. for the year.

Redmons.—A successful starting of two of the largest size pneu-

REDMOOR.—A successful starting of two of the largest size pneumatic stamps, supplied by Messrs. Harvey and Co., of Hayle, took place on Monday last, and they proved capable of treating an immense quantity of tinstuff. A large number of miners could now be employed on two tin lodes which are laid open for stoping from the 30 down to the 125 or bettom of the mine.

WHEAL SISTERS .- At the meeting on Tuesday the accounts showed a debit balance against the adventurers of 23121. It was resolved to make a call of 15001. (5s. per share). The bankers' pass-book was laid on the table, together with a statement of the ledger balances, showing a debt due to the bankers of 2049l., and for lords' dues 126l, In the accounts presented the dues were charged at 1-60 instead of 1-24, which it was believed the lords would accept during pleasure.

NEW TRUMPET CONSOLS .- There is reported to have been con-LEW TRUMPET CORSOLS.—There is reported to have been considerable enquiry for these shares, not only in expectation of meeting with a large body of tin at the 28 fm. level, seeing the present character of the lode, but also through the price obtained for two sample lots of copper sold at the Redruth Ticketing on Thursday. Five tons realised the price of 10t. 6s. per ton, and 4 tons 21t. 5s. per ton. There is considered to be very little doubt but the company possesses a prize of great value. pany possesses a prize of great value.

CASSELL'S PUBLICATIONS. - Archdeacon Farrar's Life and Work of St. Paul, part 17, contains the continuation of the chapter on the Second Epistle to the Corinthians, and the commencement of that on Paul's second visit to Corinth. Knight's Practical Dictionary of Mechanics, part 78, extends from Suture - instruments to Tapping-gouge,

ALLOTMENT WILL BE MADE IN THE ORDER APPLICATIONS ARE RECEIVED.

The Souback and Catir Alan Mining Company (Limited).

DIRECTORS.

His Excellency HASSAN FEHMY PASHA, Minister of Public Works, &c., Constantinople.

Admiral HOBART PASHA, "Musheer" of the Turkish Navy, 17, Berkeley-square, W.

The Right Hon, the EARL POULETT, Hinton St. George, Somersetshire.

Sir STEPHEN J. HILL, C.B., late Governor of Newfoundland, Springfield House, Caversham, near Reading.

OCTAVIUS WARRE MALET, Esq., late Bengal Civil Service, 14, Manson-place, Queen's-gate, S.W.

CHARLES EDWARD AUSTIN, Esq., Mem. I.C.E., 1. Westminster-chambers, London, S.W.

MOHAMED ARIF EFFENDI, Eulema, Constantinople.

FREDERICK GUARRACINO, Esq., formerly Her Britannic Majesty's Vice-Consul, Constantinople.

LUDWIG SECFELDER, Esq., Constantinople.

CHARLES LEMPRIERE, Esq., D.C.L., St. John's College, Oxford.

HENRY HAYMEN, Esq., Belmore Lodge, College-park, Lewisham.

SOLICITORS—Messrs. M'DIARMID and TEATHER, 5, Newman's-court, Cornhill, London, E.C.

AGENTS IN LIVERPOOL—Messrs. J. BRAMLEY MOORE and CO.

BANKERS.

London—THE IMPERIAL BANK (Limited), 6, Lothbury, E.C.

Constantinople—THE IMPERIAL OTTOMAN BANK.

The directors are now prepared to issue a further number of bonds to bearer, with coupons for the interest attached (part of £60,000 authorised to be issued), to provide a larger working capital, and for the purposes mentioned in Mr. Austin's report, the mines having been opened and proved to contain a large supply of ore. Bearing been opened and proved to contain a large supply of ore. Bearing interest at the rate of 8 per cent. per annum, payable half-yearly on the 30th June and 31st December, the principal to be repayable in (note—from the 30th June, 1881) 10 years with 50 per cent. bonus, or £15 for each £10, the holder, however, to have the option after (note—from 30th June, 1881) three years of requiring payment of principal without bonus or deduction, at any time on six months' notice. All bonds of this issue will rank equally against the property of the company, irrespective of the date of issue.

Copy of the directors' report, &c., and forms of application for bonds, can be obtained from the secretary, 15 and 16, Railway Approach, London Bridge, S.E.

Approach, London Bridge, S.E.
Since the issue of the directors' report the vein has been struck at two lower levels—viz., on the 10th of February. Mr. Austin re-

THE COAL FIELDS OF WESTERN CANADA-No. II.

Having thus briefly described the general mode of occurrence of the coal on this part of the Belly River, the following more detailed notes on the outcrops which occur will serve to show the actual character of the seam. At the Coal Banks the coal has been exnotes on the outcrops which occur will serve to show the actual character of the seam. At the Coal Banks the coal has been extracted chiefly by quarrying along the natural outcrop, though during the past summer a small level has been begun. The outcrop is situated in the front of a steep scarped bank facing the river, and the seam, which at the southern end of the bank is about 30 ft. above the water, dips away below the water at the northern. The section showing the mode of occurrence and association of the coal in the bank, but not extending upward to the base of the drift deposits, indicates that the main seam consists of coal I ft. 4 in., shaley parting (often almost absent) 4 in., coal 4 ft. = coal 5 ft. 4 in. below which is carbonaceous shale 2 ft. The dip at this place is about N. 83° W. (mag.), at an angle of 5° to 8°. On the opposite side of the river, at its next bend, the coal seam is again well shown. It is slightly undulating, and dips gradually away below the water level at the northern end of the bank. The part of the section designated above as the main seam is here coal 1 ft. 6 in., shaly parting (1 to 3 inches) 2 in., coal 3 ft. 3 in. = total coal 4 ft. 9 in. About 4 in. in thickness at the base of the seam is here laminated in texture, but appears nevertheless to be of good quality. The general dip is about N. 50° W. (mag.), at an angle of less than 5°. From this point for a distance of five miles down the valley, the dark shales overlying the coal are alone seen. When it again appears, on the west bank of the river, the main seam shows coal 1 ft. 6 in., shale 3 in., coal 4 ft. 6 in., shale 1 ft. 6 in., coal 2 ft. 9 in. = total coal 8 ft. 9 in. The lowest division of the seam at this place is apparently not represented in the sections previously described. The coal in it is somewhat laminated, but seems to be of good quality. The dip is here about S. 70° W. (mag.), at an angle of 5°.

About three miles further north, extensive exposures of the coal are again found in the scarped bank or cliff

again found well exposed, though in several places the associated rocks are shown in such a way as to indicate that it outcrops below the drift a short distance east of the River valley. At the point at which the base of the Pierre should cross the Little Bow River, a seam of coal a few inches thick was observed by Mr McConnell, but the exposures did not bring the main seam into view. This coal-bearing horizon apnears again on the Row River at Grassy Island but the exposures did not oring the main scalin into view. Inis coal-bearing horizon appears again on the Bow River at Grassy Island, about 33 miles in a direct line below the Blackfoot Crossing, in lat. 50° 25' 15". In their general appearance, arrangement, and thick-ness, the seams here exposed closely correspond with those on the Belly River. The seams dip westward at a very light and constant angle. The seam 4 ft. 6 in. in thickness probably represents the main

angle. The seam 4 ft. 6 in. in thickness probably represents the main seam of the Belly River,

The coal is compact, does not easily break up by handling or exposure, and is in every respect a very excellent fuel, but does not yield a coherent coke. In correspondence with the increased distance from the mountains of the outcrop of the same seam on the Bow River, and probable inferior degree of alteration to which it has been subjected, the coal is there found to contain more water, approximating in this respect to some of the Souris River lignites. From these, however, it still differs in its more compact texture and resistance to weathering and the regular vertical cleat or jointage approximating in this respect to some of the Souris Tayler ingines. From these, however, it still differs in its more compact texture and resistance to weathering and the regular vertical cleat or jointage planes by which it is traversed, which cause it to assume cuboidal instead of conchoidal forms on fracture.

In his concluding general remarks on the coals and lignites, Dr

In his concluding general remarks on the coals and lignites, Dr Dawson remarks that, whether from an economic or purely scientific point of view, one of the most interesting results of the exploration of the Bow and Belly River country is the determination of the fact that the coals are not confined to a single horizon or formation, but characterise at least four zones in the geological series of this region. The fuels found in the laramic represent, at least in a general way, those characterising the same formation of its repreentative, the Fort Union Group, eastward on the plains to the couris River. As far north as the Athabasca and Peace Rivers, fuels are now known to occur in rocks of about the same age. The coal seam which has been referred to as attached to the summit of the Pierre shales, is not known to be represented elsewhere, unless in-deed by a very thin seam near the same horizion on the Smoky River. The coal at the base of the Pierre, which has been worked at Coal Banks, on the Belly River, has not been recognised in a workable form beyond the limits of the district now described. The dark, highly carbonaceous beds at the base of the upper shales of Smoky River, are, however, at about this horizion, and in one place a thin seam of lignite coal is locally developed. A bed of lignite described by Prof. Cope on the Missouri as in some places of possible economic value must also be of nearly the same age. It is further worthy of remark that this coal-bearing horizon at the base of the "Rich vein struck at 77 ft. (see report, paragraph 10, page 4), sample thence sent home contains thick vein of gold, thus confirming report; 2½ tons dispatched."

A button of bullion forwarded from Souback as obtained from a sample of rich ore prove that such ore is of the value of about £6000

And on the 17th of May, Mr. Austin reported:—

"Mr. Lemmi writes that he has struck rich ore in the second level I ordered to be driven in the side of the hill to

second level I ordered to be driven in the side of the hill to cut Cosma's vein.

"We have now the satisfaction of knowing that it (the vein) extends 120 ft. below the first workings. He also says he is now stoping ore in No. 2 shaft, containing 618 ozs, auriferous silver per ton, and shall be able to send it when the Greek Easter holidays are over."

N.B.—The directors notify that they are about to call meetings of the shareholders to increase the share capital, and to provide for the repayment of the bonds, and it is intended to provide that bondholders shall have the option of converting their bonds into shares at par so long as any shares shall remain unallotted.

Pierre of the interior continental region is as nearly as possible equivalent to that at the base of the Chico Group, which yields the coals of Vancouver Island at Nanaimo and Comox.

The coal in the series below the Pierre on the Bow and Belly River may be taken in a general way as representing those which occur in the lower or Dunvegan sandstones of the Pine River, in the River may be taken in a general way as representing those which occur in the lower or Dunvegan sandstones of the Pine River, in the Peace River country. The occurrence of workable coal seams at several different horizons, and the proved continuity of some of them over great areas, guarantees an abundant supply of fuel in this district, a matter of great importance in a country which over great areas is almost entirely destitute of wood. The quality of some of the fuels is such as to render them suitable for transport to a distance, and it is doubtless on this belt of coal-bearing rocks in the vicinity of the mountains that the railways of the north-west will depend chiefly for their supply. The quantity of coal already proved to exist is very great. The distances for which the outcrops of certain seams have been traced have been mentioned. Approximate estimates of the quantity of coal underlying a square mile of country in several localities have been made, with the following results.—Main seam, in vicinity of Coal Banks, Belly River: Coal underlying one square mile, 5,500,000 tons. Grassy Island, Bow River. (Continuation of Belly River main seam): Coal underlying one square mile, ver 5,000,000. And Blackfoot Crossing. Workable coal in seam as exposed on Bow River: underlying one square mile, 9,000,000 tons. Cal man paper of the control of the

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OLD SHEPHERDS.—From the report which appears in another page of the Journal it will be seen that the main or south lode has just been cut at the 51, and found to be 10 ft. wide. The manager has decided to cut through it again in another place so as to ascertain its value; but in the meantime from the evidence of those who have just inspected the mine this magnificent discovery will of itself yield an output sufficient to know the new curshes in full work and more an output sufficient to keep the new crusher in full work, and more than treble the present returns.

WHEAL CASTLE.—The water is in fork below the 10 fathom level. It is expected that within a few weeks two new parallel tin and copper lodes will be cut. Captain Boyns says there can be no two opinions on their proving as rich as the Wheal Castle lodes already proved. The building of the engine-house is rapidly progressing, carpenters' and smiths' shops almost completed, skip-road partly laid down, and all work thoughout the mine progressing so as to get in working order by the time stated. From the foregoing it would appear that profitable returns are likely to commence before the 10 per cent, guaranteed dividend ceases. per cent, guaranteed dividend ceases

LEAD ORES.

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COAL MINES REGULATION ACT, 1872.

EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY. DISTRICT UNDER THE CHARGE OF THOMAS WYNNE, Esq., H.M. INSPECTOR OF MINES.

NOTICE IS HEREBY GIVEN, that an EXAMINATION for MANAGERS' CERTIFICATES OF COMPETENCY, under the above named Act, will be HELD on the 27th day of June next, and CANDIDATES INTENDING TO PRESENT THEMSELVES AT SUCH EXAMINATION must, on or before the 18th day of June, notify such intention to the Secretary of the Board of the above-mentioned District, from whom all information as to particulars can be obtained. on or before the 18th usy
the Board of the above-mentioned District, 17th
the Board of the above-mentioned District, 17th
By order of the Board,
JOSEPH KNIGHT, Secretary.

N.B.—Persons who do not reside within the District are equally eligible for tamination with those who do.

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FOREIGN MINES.

FOREIGN MINES.

ALAMILLOS.—May 23: In the 2), driving east of San Martin's shaft, the lode has declined in value to \(\frac{1}{2} \) ton per fathom. The lode in the 20, driving west of San Martin's shaft is small, but is well defined; producing \(\frac{1}{2} \) ton or or per fm. In the 50, driving east of San Felipe's shaft, there is a strong lode producing flowed of ore. The lode in the 50, driving east of San Felipe's shaft, has a prosing appearance; yielding 1 ton per fathom. In the 60, driving east of San Endique's shaft the lode is unproductive. The lode in the 85, driving in the Endique's shaft the lode is unproductive. The lode in the 85, driving in the same direction, is better defined, and produced stones of lead in the past week. In the 30, driving west of Taylor's engine-shaft, the lode is of no value. The lode in the 130, driving west of Taylor's engine-shaft, the lode is of no value. The lode in the 180, driving west of San Victor's shaft, has improved to 1\(\frac{1}{2} \) ton of ore per fathom. The 80, driving east of San Victor's shaft, has improved in appearance, and contains spots of lead. In the 80, driving west of San Victor's shaft, good stoping ground is being opened up: worth 1 ton per lathom. In the 70, driving in the same direction, nothing of value has been intersected. The lode is Manuel's winze, sinking below the 13, tiere is a regular and compact lode; vielding 1 ton in a fathom. Luiz's winze, sinking below the 70, is going through very strong lode; worth 2 tons in a fathom.

ASIA MINOR.—J. W. H. Escherich, J. F. O. Munschied, May 15: Report for Agril: District 1.—Level 1. (Arthury: 1 in driving south of the lode, and in rise 50, 2, the work had to be stopped for a fortnight to secure better ventilation; total stopings per fathom 3 tons.—Level 2 (Hamburg): Total stopings per fathom —Level 3 (Petri): Total stopings per fathom 3 tons.—Level 6 (Durfeld A): In the cross-cut the appearance of the lode has improved to 2\(\frac{1}{2} \) tons per fathom —Level 6 (Durfeld A): In the cross

maining billiants. The prevention of the council provided by the quantity we anticipate being produced.

ALFJORNIA GOLD.—The usual weekly report has not yet been received,
having been delayed in transmission. Mr. Alfred Rickard, the manager at the
mine, cabled the directors on the 28th inst., as follows:—"Mill-run (35th week),
il3 tons; yield, \$3400 (6801.); smelting ore sales, \$850 (1701.).

CALLAO BIS GOLD.—Mr. G. Volkeider, who has been associated with the El
callao Company from its commencement, has accepted the appointment of local
manager to this company. The latest advices from the mines are as under;—
ignil : No. 3 shaft has been sunk since last report II ft.; total depth from surless to-day, 126 feet. We struck bluestone at 124 ft. We have crossed several
bestones have a lot of sulphurets in them. This shaft has been timbered
from to bottom, and divided and cased since last report.

— April 14; No. 3 shaft has been sunk 3 or 4 ft. more, and the bottom of the
states looking very promising, with leaders running north and south. At this
gold we have cut a spring of water. We are now engaged in putting down a
pump in this shaft.

point we have cut a spring of water. We are now engaged in putting down a jump in this shaft.

CANADIAN COPPER.—Francis Bennetts, May 13: Hartford Mine, No. 5 Sait: In the 70 east there are two leading branches of ore, amounting to about \$\text{lin}\$ of solid ores. In the 40, resumed, there is a leader of about 10 in. of good ore, 6 per cent. In the 10 east the voin is of mixed ore and slates for about 3 ft. wide.—No. 2 Shaft: The voin in the 10 east contains a leader of ores of about 1 ft. wide.—No. 1 Shaft: The voin in the 35 west is about 3 ft. wide, with a slid leader of ores of 12 in. to 14 in. wide. The stopes throughout the mine are looking well, the average width of the vein being 4 ft. to 4 ft. 6 in.—St. Francis Mine: The voin in the 30, south of main shaft, is about 2 ft. 6 in. wide, and looks rery promising. The smelling works are running well.

ORPORATION OF SOUTHAUSTRALIAN COPPER.—Capt. Bryant, April 23: Bliman Mine, Massy's Shaft.—The cross-cut, owing to a change in the ground,

solid seader of ores of 12 in. to 13 in. wise. The superstanding the extension of the vein being 4 ft. to 4 ft. 5 in.—85. Francis sposing well, the average width of the vein being 4 ft. to 4 ft. 6 in. wide, and looks rery promising. The smelting works are running well.

ORPORATION OF SOUTH AUSTRALIAN COPPER.—Capt. Bryant, April 28: Eliaman Mine, Masey's Stant.—The cross-cut, owing to a change in the ground, is parry for driving; but I deem the characteristics are more favourable, the rock being less stratified, and has changed into a compact bed rock. Whether owing to a dyke forming between the mundic recently driven through, and the lose or intrasive rock, we are not in a position to determine until further opened up.—65 fm. Level South: Agrecable to our proposed pian of opening up the mine, we have reached the lootwall, and for permanent development shall carry a portion of it. The western side of level is of much the character at in the level driven in the lode—say, to show a ground to form 1 per ancher at 10 in. Level South: Stoping of the secundation of th

We nave not most with anything of value in the cross-cut south. The lode in the 40, driving west af San Francisco engine-shaft, is regular, and shows spots of lead ore occasionally.

KOHINOOR AND DONALDSON CONSOLIDATED.—Mr. Alfred Rickard, in his report for the week ending May 5, says respecting the Donaldson Mine:—The No. 2 stopes are yielding 2½ tons of milling and ½ ton of smelting ore per fathom; the stopes have been re-set on tribute, at a remittance of 30 per cent. on act process of output. The intermediate level is yielding ½ ton of smelting and it ton of milling ore per fathom; preparatory work is in hand for stoping on tribute at a remittance of 30 per cent. on net proceeds of output. The No. 3 south stope is yielding 2 tons of smelting and 1½ ton of milling ore per fm; the stopes have been let on tribute at a remittance of 30 per cent. on net proceeds of output.—the lode maintains its value. The lode in the No. 4 stope is 4ft. wide; sithough mostly of low grade it yields good grade top quartz, in small veins from 4 in. to 5 in. wide. In the Champion Mine the 200 west stopes are yielding 5 tons of fair grade milling ore per fm., and a little smelting ore, and have been let on tribute at 25 per cent. on net proceeds of output. In the 400 east the ground in back of old stopes has been let on tribute at 25 per cent. remittance. In the 520 west, the shaft having been completed to the bottom, its miners were placed to drift on the lode, which is 5 ft. wide, yielding 8 tons of milling and 1 ton of smelting ore per fathom. The lode in the rise of the 200 east is improving, giving promise of opening out tribute ground. Satisfactory progress is being made with the shaft. Work has been resumed at the Kad D mill, in view of getting the buildings ready for the machinery in good lime.

The resident director wrote under date of May 14:—The building of our new

The rasident director wrote under date of say 1:1-Inte binding of our new pills will be completed by the end of this month. Work is progressing regularly.

Lixares.—May 22: Pozo Ancho Mine: The lode in the 130, driving east of Warne's engine-shaft, in improving in appearance, and yielding good stones of every worth ½ ton per fathom. In 130, driving west of Warne's engine-shaft, has declined to ½ ton per fathom during the past week. In the 115, driving in he same direction, there is a large lode, consisting chiefly of carbonate of lime, and yielding good stones of ore, valued at 1 ton per fathom. The lode in the 135, driving west of Pelil's engine-shaft, is very open, but not so productive as it is, the present worth being ½ ton per fathom. In the 135, driving east of San Francisco Hell's engine-shaft, is proposed by the 140 stay of the lode in the 15 has declined in value to ½ ton the lode in No. 249 winze sinking below the 115 has declined in value to ½ ton the lode in No. 250 winze sinking below the 115 here is a strong and productive lode, yielding 2 tons of ore per fathom. The lode in No. 251 winze sinking below the 130 is small, consisting of quartz and lead ore, valued at 1 ton per fathom.—Quinientos Mine: In the 115, driving south of Taylor's engine-shaft, in ground at a very cheap rate, its present worth being 1 ton of ore per fathom. The lode in the 70 (No. 2 lode), driving in the same code length of paying ground at a very cheap rate, its present worth being 1 ton of ore per fathom. The lode in the 70 (No. 2 lode), driving in the same direction, is small and poor.

**WERBUDDA COAL AND IRON.—J. A. Maughan, Monthly Progress Report for April: In handing you my monthly progress report for the month of April 1 and obligated to make it somewhat brief for the want of matter, for the work at the progress of the grant of the work at the progress of the grant of the work at the progress of the grant of the work at the progress of the grant of the work at the progress of the grant of the grant of the grant of th

though we have not quite reached ithe 2000 tons, we have still reached the highest output attained for some years. The output for the month of April amounts to a total of 1978 tons 19 cwts. 0 qr. 13 lbs., of which the sales were 1858 tons 3 cwts. 2 qrs. 23 lbs., and the colliery con-umption 290 tons 15 cwts. 12 qrs. No. 2 Shatt Workings, No. 2 Seam, Chargaum District: This district continues to look well, and to yield the greater part of our output: there are six faces about half way through squares P 31, 32, 33, and 34 going castwards, and these are the most advanced places, the rest of the east places being pretty much in a line between square P 34 and P 39. The south faces in this district, that is 102 hewers in the 24 hours.—South Level: I still can place seven men a shift in this district; but, as already reported, it will soon merge into Chargaum district. The leading places south are still in P 39, and are showing signs of reaching the dyke called on the plan supposed edge of basin,—No. 2 Boring: The top of the pipes were reached by the staple at 53 ft. on April, and operations commenced to draw the pipes, and get at the rods.—No. 5 Boring: This boring on April 30 reached a depth of 388 ft. 4 ins. making a depth 20 ft. 10 in. bored during the month, and the strata still being hard red conglomerate.—Engines and Machinery: The Agnes winding-engine has been working well during the month, and the strata still being hard red conglomerate.—Engines and Machinery: The Agnes winding-engine and snews are urgenity required for it in the meantime, and another has been ordered from Bombay. All other engines and machivery going on well, but the 20-h.p. engine (Robey) is much in want of the brasses ordered for it, and ropes and sheaves are urgenity required for the construction of the parties of the construction of the construction of the parties of the construction of the parties of the construction of the construction

We are on the point of establishing a regular postal service between our mine and Bolivar, so as to ensure a reply to all letters by the same steamer that brings them. This will put our mine a fortnight nearer than any other in the country.

NEW EMMA.—George Cullins, May 7: The shaft is now 21 ft. below station, having made but 2 ft. since report of 3 th ult., owing to breaking of sinking-pump, which is now repaired, and working all right again. The cross-cut is in 39 ft. from station, having made 14 ft. since report of 30th ult. No change in rock. Slight increase of water.

NEW QUEBRADA.—Report for March: Dispatched to the coast for shipment: Regulus from smelting-works, 16 tons, 26 52 per cent. dry; ore from the mines, 28 54 tons, 9 34 per cent dry; total, 28 50 tons. Forwarded from mines to smelting works, 10 94 tons, 501 per cent. dry; income arrivals, 23 51 ons; saccost of co., 27, quantity affoat on March 31, 52 9 tons; stock at the mines on March 31, 52 9 tons; stock at the mines on March 31, 52 9 tons; stock at the mines on March 31, 52 9 tons; stock at the mines on March 31, 52 9 tons; stock at the mines on March 31, 52 9 tons; stock at the mines on March 31, 52 9 tons; stock at the mines on March 31, 52 9 tons; stock at the mines on March 31, 52 9 tons; stock at the mine was a formal for the stock of the stock of

ALUMANDY CONSOLIDATED.—Telegram, May 29: Week's run (one furnace), \$15,000, from 295 tons of ore; refinery, \$20,000.

— S. Longley, May 7: The 100 south drift from station has been run 12 ft. Total 359 ft. In old ore chamber. The 300 south-west drift from station has been run 14 ft. Total 479 ft. In limestone. The 300 south-west drift from south-east has been run 16 ft. Total 180 ft. In limestone. The 1050 north-west drift from station has been extended 13 ft. Total 670 ft. In limestone. The 1050 north-east drift from north-west drift has been extended 15 ft. Total 323 ft. In limestone.

RIO GRANDE DO SUL (BRAZIL) GOLD.—H. Eddy, April 14. Aurora Lode, Western Shaft: The men having completed shooting down the side for

323 ft. In limestone.

RIO GRANDE DO SUL (BRAZIL) GOLD.—H. Eddy, April 14. Aurora Lode, Western Shaft: The men having completed shooting down the side for plot and convenient room at the bottom have just commenced driving east and west on the lode, in which there is no change since last week's report. This latter remark will also apply to No. 2 gallery west. In No. 1 gallery west the lode is gradually improving in size, the quality being materially the same No. 2 north-east on caunter is also without material change. In No. 2 north-west cross-cut on slide the ground is fairly good for driving. We shall increase the force here, as well as in No. 1 west, after the end of the present month so as to make greater progress in both directions in the porphyritic granite.—Servito Mine: We have more water here than I expected, but I hope to be enabled to report on the bottom of workings that we are clearing up next week.—Ligoz Very little has been done during the last few days (by the washers) on account of the river having been much swollen by the late rain, so that I have no further statistics than furnished in my last report.—Reduction Works: We are proceeding regularly with the reduction of the stuff from the caunter, which (from quantity of amalgam) will about equal the value obtained by assay—5 to 6 dwts. of gold per ton. I have employed masons and carpenters to build good winter quarters for Europeans at the mine, and hope to report progress next week.

RUBY AND DUNDERBERG CONSOLIDATED—May 6: Dunderberg: There has been no work done in this mine this week on the company's account. There are 18 tributers at work who are extracting about the usual quantity of cell and the statistic of the new shafe. Work was commenced on the ore to-day (Monday). Have shipped 34 tons ore this week, and I'men at work.

— Telegram, May 29: 148 tons ore shipped; 95 tons smelted, realising net 2010; 18 tons tribute ore shipped and 6 tons smelted, producing to company 39:

pany 29).

BT. JOHN DEL REY.—Telegram from Morro Velho, dated Rio de Janeiro,
MAy 29; Produce 10 days (second division of May), 5250 cits.; value, 2034 cits.;

progress is being made with the shaft. Work has been resumed at the K and D mill in view of getting the buildings ready for the machinery it good lime.

The rasident director wrote under date of May 14:—The building of our new mill will be completed by the end of this month. Work is progressing regularly.

Lixares—May 22: Pozo Ancho Mine: The lode in the 130, driving east of warne's engine-shaft, in improving in appearance, and yielding good stones of exe; worth ½ ton per fathom. The 130, driving west of Warne's engine-shaft, in improving in appearance, and yielding good stones of ore, valued at 1 ton per fathom. The lode in the 130, driving west of Pelli's engine-shaft, is very open, but not so productive as it was, let present worth being ½ ton per fathom. In the 133, driving cast of San Francisco and is hard for driving. The 153, driving east of San Francisco and the ground is hard for driving. The 153, driving east of San Francisco and the ground is hard for driving. The 153, driving east of San Francisco and the ground is hard for driving. The 153, driving east of San Francisco and the ground is hard for driving. The 153, driving east of San Francisco and the ground is hard for driving. The 153, driving east of San Francisco and the ground is hard for driving. The 153, driving east of San Francisco and the ground is hard for driving. The 153, driving east of San Francisco and the ground is hard for driving east of San Francisco and the ground th

ence of all the lodes I mentioned in my report, and has met with an cuterop of one, probabls the Pinelli lode, 10 ft. thick. As no lode has yet been discovered in this country which does not carry gold, I think our shareholders need not labour under any apprehension as to the value of their property. We are now in daily expectation of the arrival of the vessel with our machinery, and are making preparations for its immediate transport to the mine. The weather and roads are in a satisfactory state for the conveyance of the heavy portion of the plant, and as the heavy rains do not set in till July we hope to have everything up on the mine by that time.

— Mr. Winwood Smith, April 30: I am telegraphing you to-day that the property having been fully and legally conveyed to the company and the title being perfectly clear and satisfactory, to-morrow morning, 2 A.M., I start if the time, and Mr. Skertchly will forward you an English translation of the transfer. With regard to the mine I have much pleasure in fully confirming Mr. Skertchly's report. The lodes of quartzare even more numerous than stated, and I have seen one outcrop of over 10 ft. in width, which I believe to be the Pinelli lode. Timber is abundant and of the best quality, and the situation appears healthy. I have been clearing the bush for the dam, and have now sent up 12 men, six of whom are miners, and will at once proceed sinking the Pinelli shafe, which is situated about 300 ft. from the spot I have chosen for the mills. The other six will be employed in laying foundations of and preparing the timber for the mills. Preparations are being made for transporting everything to the mines as quickly as possible. I have heard from the agent of Messra. Fraser and Chalmers that the Frue Vanner ore concentrater has already left New York.

TOLIMA MINING COMPANY .- Advices received by the mail of

| of which the following is an abstract:— Friars March returns | 8 | 28,342 22,612 | .64 .7% |
|--|------------------|--------------------|--------------------|
| Estimated profit | 8 | 5,729 | 7 |
| The underground agent reports | 7ms. 39 27 | Ft. 6 4 2 | In. 7 1 6 |

ore and are suspended. No. 3, by four men, produces 32 cwts. Inheral perfathom, ground wrought 53 ft. No. 5 stope, by 10 men, worth 65 cwts, per fathom of mineral, estimated to produce 250 ozs. fine silver per ton. Ground expended 35-4 ft.

No. 2 EAST WINZE.—Total depth below 60 brace 61 ft. This winze is now down the required depth and driving westward has commenced, to meet the 70 east end. The vein continues throughout the sinking of this winze remarkably rich and powerful, and goes down in sole without material change in character or productiveness. We have a good prospect at this and deeper levels on the course of this pipe of mineral of extensive and rich sections for stoping.

No. 2 EAST RISE.—This is on the south vein, and worth 12 to 15 cwts. per fathom; risen 8.7 ft.
60 WEST RISE No. 2.—This is being put up in back of 60 west, some 36 fms. from shaft against the 50 west winze. The vein is chiefly composed of tough flookan and kills with a mixture of low grade pyrites.

50 FM. LEVEL.—Cross-cut south of Esperanza shaft, by two men, at \$90 per fathom, traverses ground thickly interspersed with strings of quartz, evidently droppers from the lode on which the above shaft is sunk.

50 EAST WINZE No. 2.—We are cutting brace for this, with two men, at \$40 per cubic per fathom. The winze will be sunk in line with E-peranza shaft for the more immediate object of communicating with the 50 cast, the ventilation of which, already very defective, will, otherwise, be still more so, and for the remoter and less important object of forming a continuation of the Esperanza shaft, which, in the future, will, doubless, be a convenient base of operations as the eastern sections are developed by the deeper levels.

STOPE in side of drift west of Modesto's winze has been worked as close down to the back of the 50 as for the present is prudent. An arch is, therefore, left in the sole of ends to support the pillar or horse of ground standing between this and the norterem workings.

50 WEST, No. 2 WINZE.—Present depth below bra

40 West END extended 10 ft., but neither it or 40 west rise present alterations for remark.

30 EAST.—The vein has become more compact, but continues to present encouraging indications for improvement.

20 SOUTH-WEST END, has further improved, the leaders of mineral being 1½ to 2 in. whie, fairly solid, and of good grade. The sole of the drivage has been more or less mineralised for soveral fathoms in rear of the end, the ore rising over the face of the forebreast as the end advanced, and extending to the roof, showing a rather flat easterly dip in common with that of other shoots of mineral in the mine; this, with the general indication presented, gives grounds for the opinion that we are touching the margin of a run of ore ground. The end, at present, bears a value of 6 to 8 owts, per fathom.

SABANDIJA MINE.—During the mouth the men have been principally employed squaring down the shaft and generally preparing it for receiving skipway. This is now near completion; and in a few shifts will be in working order when plat will be cut and levels started east and west on the course of the vein. The greater facilities afforded by the winding appliances for drawing the stuff, with the all'important advantage of the additional supply of water lately brought.

METALLURGICAL AND MECHANICAL INSTRUCTION AT KING'S COLLEGE.—The great facilities offered for acquiring sound technical knowledge at King's College have already been referred to in the Mining Journal, and it cannot be doubted that by placing the admirable metal testing appliances under the control of Professor A. K. Huntington those attending the metallurgical courses will have increased facilities for perfecting their studies of the return and were K. Huntington those attending the metallurgical courses will have increased facilities for perfecting their studies of the nature and properties of metals. The testing plant includes a machine of the Kirkaldy type, made by Messrs. Greenwood and Batley, of Leeds, and which was presented to the College by the Clothworker's guild; it is capable of exerting a strain of 50,000 lbs. There is also a good torsion—Thurston automatic recording—machine, made by Messrs. W. H. Bailey and Co., of Manchester. These machines are supplemented by a good collection of tools and annuarise for the students. mented by a good collection of tools and apparatus for tin metallurgy and engineering, comprising a variety of cupolas for foundry work, workshops containing a large number of lathes, shaping, drilling, and other machines driven by steam-power, a spacious pattern or carpenter's shop, and various other necessary appliances, so that there is no reason why a student attentively studying for a few terms should not obtain at least as good an insight into the science and practice of the trades they study as could be had in metallurgical and engineering works carrying on business in the ordinary course of commerce. The Evening Classes which form an important branch of the King's College technical course are already well attended, and it is not doubted that the enlarged plant now available will prove a still further attraction. The first award of the Siemens' cold medal and prize will be made at the end of the present month. will prove a still further attraction. The first award of the Siemens' gold medal and prize will be made at the end of the present month, and will depend partly on an essay on some particular subject, partly on a written examination on the metallurgical lectures, and partly on actual work done in the laboratory. The subject for the essay for the present year is the "Manufacture of steel suitable for ship and boiler plates." The essays are to be illustrated by freehand sketches and mechanical drawings to scale, and must be sent in to Professor Huntington on or before June 30. The result of the competition will be duly recorded. petition will be duly recorded.

WATSON BROTHERS' MINING CIRCULAR

WATSON BROTHERS, M NEOWNERS STOCK AND SHARE DEALERS & 1, ST MICHAEL'S ALLEY, CORNHILL, LONDON.

Nearly twenty years ago the weekly information which had previously been published for a great number of years in WATSON BROTHERS Mining Circular was transferred to the columns of the Mining Journal, with the following announcement.

The chief attraction of a mine meeting in Cornwall is a goop dinner. Figures and accounts to many are a bore; printed statements of accounts are handed round, and too often by many taken as matters of fact, and scarcely any examination is made into anything in the way of charges, payments, and transfers. At any rate, this is how it used to be years ago, and from what has happened at Dolcoath, the same carelessness seems to be exhibited now, and then shareholders, whose duty it is to look after their own affairs in a Cost-book mine, grumble and growl when anything goes wrong. If they delegate their powers to a committee, that committee should see that things are properly conducted monthly, and then submit a full statement of affairs to the sharcholders at the periodical and ordinary meetings. In Cost-book mines managed in London, the committeemen always meet monthly to audit accounts, &c.

We are sorry there is a delay in the sketch of the Caradon district. South Caradon, it is well known, paid over 384,000L in dividends; West Caradon paid over 150,000L, some years paying 10,000L a year. East Caradon also paid large dividends, and shares rose from 1s. 6d. to 60L. At present South Caradon is in a limited company of 50,000 shares of 1L each; West Caradon in 12,000L shares, 7s. 9d. paid, and nearly paying cost; New West Caradon in 12,000; West Gonamena, 12,000. To the south of South Caradon, adjoining it and West Caradon, and taking some of the lodes of the former, is "THE NEW CARADON," in 12,000 shares, 5s. paid, and having 1600L in hand. This sett is surrounded also by the new ground just commenced by the old South Caradon Company, and offers one of the best specs., in a small way, that we know of at present.

The Wheal Crebor ore sampled last week (398 tons) is estimated to produce 1483L 15s. 6d. The best parcel (80 tons) assays 9½ per cent.; 62 tons, 8½; the average produce is 7 per cent. The average of the last sale was 7½.

We have carried on and are still holders of nearly 4000 shares in D'Eresby Mountain, and stated at the meeting we were prepared to

D'Eresby Mountain, and stated at the meeting we were prepared to take up 1000 shares, as our proportion of the unissued shares. Large numbers have already been applied for by shareholders, as well as by outsiders. None will be allotted until after the 15th.

Market value does not always represent the real value of a specu-

lation.

The unissued shares in Langford are to be paid 2s. 6d. on application, 2s. 6d. on allotment, and 5s. in three months. Before the latter time we should hope to see shares at double present price. The copper in the lode is of very high produce—over 20 per cent,—and a few tons per fathom would soon pay cost. This is the lode that will form a junction with the Silver lode in the shaft. The shares on the terms above named will only be offered to present shareholders in the first instance; but if all are not taken we shall be happy to secure a few for any applicants, though we cannot of

shareholders in the first instance; but if all are not taken we shall be happy to secure a few for any applicants, though we cannot, of course, promise them.

East Pool commenced working about the year 1833, and the original outlay by the shareholders was 640l., on 128 shares. As a copper mine it paid early and large dividends. The ores are rich beyond the average. The mine is now one of the richest tin mines in Cornwall. South Frances commenced as a copper mine in 1834, and the original outlay was 2232l. on 124 shares. It paid very large dividends as a copper mine, has also paid good dividends for tin, and may do so again before long. About 20 fins. from surface, soon after the company commenced operations, several pieces of oak timber were found in a good state of preservation, having laid there for upwards of a century. The mine, therefore, had evidently been opened by the ancient miners, probably for tin, shallow. by the ancient miners, probably for tin, shallow.

The lode in the 102 west at Prince of Wales is worth 151. per fathom for tin, with very rich stones of copper ore.

At D'Eresby Mountain the lode on the hanging side at No. 6 continues worth 2½ tons of lead ore per fathom. The stope in bottom of No. 5 is improving.

At East Blue Hills the sale of tin for the four weeks is 259l. 12s.,

At East Blue Hills the sale of tin for the four weeks is 2591. 12s., which leaves about 80l. profit.

Capt. Daw, the manager of Bratsberg, considers that even with copper at the present price there will be no difficulty in maintaining the present rate of dividend. And further that when the new machinery is at work, about September or October next, the returns will be largely increased. Besides Bratsberg, the company have other mines, which may be, hereafter, either worked or sold for the benefit of the company. We can only account for the low price of the shares by the general dulness of the market.

The heavy expenditure at Langford has been for machinery and plant, which has all been charged for in the accounts. At present the monthly costs are under 2001, and we are daily, as we said before, looking for a discovery in the 50 end and in the shaft; in both places there is at present very rich ore. The issue of the shares, our correspondent may observe, will give the company a working capital of 26611. And this they ought to have.

We hope to have something to say in regard to Parys next week.

INSTITUTION OF CIVIL ENGINEERS,-The annual conversazione of the members was held on Wednesday evening, by permission of the Education Department in the South Kensington Museum, and the Education Department in the South Kensington Museum, and was attended by considerably more than 2000 persons. The Presisident (Mr. J. Brunlees) and Mrs. Brunlees received their guests in the second division of the Architectural Court, the floral decoration of which, as well as of the first division of the court, was excellent. Amongst those present were Lord Justice Baggallay, Gen. Foord, Gen. Rundall, Sir. J. W. Bazalgette, Mr. B. Baker, Mr. C. E. Cooper, Sir F. Abel, Mr. T. Hawksley, Sir H. Rawlinson, Sir J. Coode, Sir J. Douglas, Sir W. Siemens, Dr. Webster, M.P., Sir W. Thomson, Prof. Leone Levi, Mr. J. Fowler, Sir J. Hawkshaw, Mr. J. Abernethy, Mr. E. Woods, Mr. G. B. Bruce, and Mr. Hyde Clarke, as well as many of the Commissioners to the Fisheries Exhibition. In the Lord President's Court the usual Loan Collection, itself sufficiently attractive, was supplemented by Mr. Edward Plater's Glee Union, who performed an admirable selection of madrigals, glees, and part songs, in a an admirable selection of madrigals, glees, and part songs, in a manner which showed that thorough training had been bestowed upon naturally good voices, which, however, had sometimes the disadvantage of the discordant accompaniment of the Hungarian band in the Italian Court close by; not that the latter band discoursed bad music, but the effect of Coward's Peaceful Slumbering with Berkes Lagos's Magyar Abrand, played upon two powerful dulcimers and a full string-band, as an accompaniment, must be heard to be properly appreciated. Mr. Berkes Lagos's troupe were more fortunate, the voices of the glee union not being noticeable in the Italian Court when the Hungarians were in fully play, and it is but fair to say that their rendering of Erkel's Falurosza; Rakcezi, with andante and march; and Waldteufel's beautiful Berceuse Walzer, left nothing to desire for precision and brilliancy of execution. The President and desire for precision and brilliancy of execution. The President and Mrs. Brunlees may be congratulated upon the admirable arrangements they had made for the entertainment of their guests, and must have been gratified at the manner in which all present appeared to

TREGORTREES AND OLD POLGOOTH CONSOLS.—The latest report from these mines shows that steady progress is being made. Four different pitches have been set on tribute at prices varying from 8s. to 11s. in 11. The value of these bargains is apparent.

SALE OF BALMYNHEER MINE, CORNWALL.

MR. W. T. DAVEY, Auctioneer, &c., Redruth, is favoured with instructions from the Mortgagees TO SELL, BY PUBLIC AUCTION, on Tuesday, June 19th, at Twelve for One o'clock precisely, at the Account House,—

BALMYNHEER MINE,
In the Parish of Wendron, Cornwall, as a gaing concern. of Wendron, Cornwail, as a going concern, toget MACHINERY AND MATERIALS THEREON,

And the leases under which they are worked, viz.:—
ONE 45 inch cylinder PUMPING ENGINE, 9 feet stroke in cylinder by 8 feet
in shaft, with one excellent 11 ton Cornish boiler and fittings, and first piece of
red and case.

od and caps.

ONE 24 inch cylinder STAMPING ENGINE, with two 11 ton boilers and fit ings, three iron stamp axies of 16 heads each, and lifters, heads, cams, braces

tings, three iron stamp axies of 16 heads each, and lifters, heads, cams, braces, &c., complete.

King and Queen post balance bob, one 50 feet shears, with sheaves, &c., 10 fms. of 11 inch pitwork (underground), 40 fathoms capstan chain, horse whim, with of 11 inch pitwork (underground), 40 fathoms capstan chain, horse whim, with stands, pulleys, &c., whim kibbles, tram wagons, sheaves, &c., about 200 fathoms of 2½ and 3 in. iron rods, with connections, pulleys, &c., three wire ropes, iron rails, one powerful double acting winch, smiths' tools, including 35 inch bellows, taps, and plates, miners' tools, drop screw, bucket prongs, rings, &c., tin and other chests, buddle gearing, two iron kieves, wood sheds, iron water wheel, 8 feet diameter, water dry tube, with damper, 23 feet long by 3 feet 5 inches. Lower BAL.—Two balance bobs, with connections, rods, &c., dashf tackle, one single winch, iron work of whim, fire bars, and several other articles in use on mines. Also one water stamps of 8 heads, with floors, &c., complete.

The above mining property is situated in a very celebrated tin bearing district, is held under a lease from the Duchy of Cornwall, granted 10th May, 1874, for a term of 21 years at 1-18th dues. It is confidently believed that a further outlay of £1500 (in forking on the water and putting the machinery, engine houses, tin floors, &c., in proper order) will make it a permanent paying concern. It is of proved value—as for the shallow depth (only 40 fathoms below surface) over £30,0.0 worth of tin has already been sold. Everything will be found of good quality, and in working order.

The foregoing Machinery, Plant, and Materials, together with the Leaset or Setts, will be first offered in One Lot as a going concern at a reserve price; and if not sold will immediately be put up in lots to suit the convenience of purchasers, and sold without the slightest reserve.

REFRESHMENTS WILL BE PROVIDED.

MARK SALE—TUESDAY, JUNE 197H, AT ONE O'CLOCK SHARP.

MARK SALE—TUESDAY, JUNE 1911, AT ONS O'CLOCK SHARP.

To view, apply on the Mine; and for further particulars to Messrs. LANE, Monso, and Soutten, Solicitors, 11, Queen Victoria-street, London, E.C.; Messrs. Bompas and Co., Solicitors, 4, Great Winchester-street, London; F.W. MICHELL, Esq., Engineer, Redruth; or at the Offices of the Auctioneer, No. 3, West End, Redruth, May 28th, 1883.

[The above advertisement will not be repeated.]

MONMOUTHSHIRE.

TO BE LET, ON LEASE, about TWO HUNDRED AND FORTY ACRES of

VALUABLE MAIDEN MINERAL PROPERTY,

Part of the NANTY-GLO AND BLAINA ESTATE, adjoining Collieries of the
Ebbw Vale Steel, Iron, and Coal Company (Limited), Messrs. John Lancaster
and Co., and the South Wales Colliery Company (Limited).

The property is believed to contain all the Steam Coal Seams usually found in
the Monmouthshire Coal Field.

For jurther particulars, apply to WM. ADAMS, Esq., C.E., Cardiff; or Messrs,
COLEORNE and WARD, Solicitors, Newport, Mon.

FESTINIOG, NORTH WALES.

TO BE SOLD, BY PRIVATE CONTRACT, a bona fide SLATE AND SLAB QUARRY, situated in the FESTINIOG MOUNTAINS, near Lord Palmerston's Quarry, and in close proximity to the Festiniog Branch of the London and North-Western Railway. For particulars, plans, reports, &c., apply to B. ISAAC-JONES Tremadoc, North Wales.

IMPORTANT TO MINE OWNERS.

FOR SALE, owing to completion of contract, a complete PLANT of ROCK-DRILLING MACHINERY, comprising—
ONE AIR-COMPRESSING ENGINE and VERTICAL BOILER. with connections, air receiver, rock orills, and heading stand, 380 yards air supply piping, &c., &c. This Machinery has been driving a cross-cut in hard rock 3 to 4 fathoms per week forward.

Address,—WARSOP AND HILL, NOTTINGHAM.

RICH AND EXTENSIVE NICKEL MINES, with SMELTING FURNACES, FOR SALE. Or a suitable PARTNER WANTED to work the mines with the proprietor. Area of concession, 50,000,000 square yards. Contents of ores, 1\frac{3}{4} to 4 per cent. nickel, free from arsenic and antimony. All necessary time allowed for inspection and proceedings.

Address, GEORG DAHM, Cologne (Germany).

TO CAPITALISTS AND OTHERS.

A SPLENDID SETT, contiguous to the celebrated GREAT HOLWAY and WEST HOLWAY MINES, TO BE DISPOSED OF. Full particulars can be had upon application to "E. M. E.," Holy well, Flintshire.

ENGINES, BOILERS, &C., FOR SALE FIRST-CLASS 50-inch cylinder PUMPING ENGINE AUTOMACH CHICKER STATE OF THE PUMPING ENGINE ditto CALCINER,

Apply to Capt. Nicholls, Camborne.

O N SALE . - FOUR LANCASHIRE BOILERS, 30 feet by 7 feet. Shells double rivetted, and Bowling expansion rings

THREE ditto, 30 feet by 7 feet, with plain flues.

THREE ditto, 30 feet by 7 feet 3 inches, with six Galloway tubes THREE ditto, 26 feet by 7 feet, with four Galloway tubes in each

EDWARD RATCLIFFE, HAWARDEN, NEAR CHESTER.

O N SALE, — THREE LANCASHIRE BOLLERS, 32 feet by 6 feet 9 inches; now working at 70 lbs under Insurance, near Manchester. Cheap if taken at once. EDWARD RATCLIFFE, HAWARDEN, NEAR CHESTER.

F OR S A L E —
ONE 50 inch and ONE 40 inch PUMPING ENGINES, with BOILERS
and FITTINGS.
ONE 22 inch ROTARY ENGINE.
ONE 124 inch HORIZONTAL ENGINE, with CAPSTAN and HAULING
MACHINE attached.

All the above Engines are in first-class condition.

Several WATER WHEELS, from 20 to 60 feet diameter. STAMPS' AXLES and a large quantity of SECONDHAND MINING MATERIALS.

Apply to—

J. AND H. PEARCE, TAVY IRONWORKS, TAVISTOCK.

STEAM BOILERS FOR SALE, SECONDHAND, with and without Galloway Tubes, single and double rivetted, working pressure of 60 lbs., 65 lbs., 70 lbs., and 80 lbs. steam pressure VERY CHEAP.

FIVE BOILERS, 30 feet by 7 feet 6 inches diameter, excellent order.

SIX BOILERS, 30 feet by 7 feet Galloway Tubes,

FOUR BOILERS, 26 feet by 7 feet

THREE BOILERS, 26 feet by 7 feet

"FOUR BOILERS, 26 feet by 7 feet "

"FOUR BOILERS, 26 feet by 7 feet "

WINDING ENGINES and COLLIERY PLANT of every description, second-hand, in stock. VERY CHEAP. Write to—

H. HELLEWELL AND CO. 4. NORTH CORRIDOR

H. HELLEWELL AND CO., 4, NORTH CORRIDOR ROYAL EXCHANGE, MANCHESTER.

SUMMER TOURS IN SCOTLAND.

CANALS. ROYAL ROUTE VIA CRINAN AND CALEDONIAN CANALS. ROYAL ROUTE VIA CRINAN AND CALEDONIAN GLARGOW daily at Seven A.M., and from GREENOCK at Nine A.M., conveying, in connection with his West Highland Steamers, PASSENGERS for OBAN, FORT WILLIAM, INVERNESS, LOCHAWE, SKYE, GAIRLOCH, STAFFA, IONA, GLENGOE, IBLAY, STORNEWAY, &c. Official Guide, 3d.; illustrated, &d. and is. by post: or at W. H. Smith and Son's Railway Bookstalls. Official Guide, 3d; filustrated, 6d. and Is. by post: or at W. H. Smith and Son's Railway Books*alls.

Time Bill, with Map and Fares, free from the Owner, DAVID MACBRAYNE, 119, Hope-street, Glasgow.

INDIAN AND AUSTRALIAN GOLD, TIN, COPPER,
ANTIMONY, and other MINES REPORTED ON for Private Shareholder

WILLIAM NICHOLAS, F.G.S., Lecturer on Mining, University, Melbourne, Consulting Mining Engineer, Exchange, Melbourne, Victoria, Australia.

SECOND ISSUE. SUBSCRIPTION LIST NOW OPEN AT PAR

THE CONWAY VALLEY FREEHOLD MINING OMPANY

(LIMITED). Incorporated under the Joint-Stock Companies Acts, with Limited Liability.

Nominal Capital, £75,000, in 75,000 Shares of £1 each,

Present Issue—£5000 in Ordinary shares. Payable, 2s. 6d. on application, 2s. 6d. on allotment, 5s. one month after allotment, balance as required.

£5000 in 7 per cent. Debenture Bonds of £100 each. Payable, £10 on application, £10 on allotment, balance in exchange for the bond. The Debentures are secured by mortgage upon the estate of the company.

DIRECTORS.

THOMAS T. FORD, Liverpool, Chairman Albion Bank and Nicetal

THOMAS T. FORD, Liverpool, Chairman Albion Bank and Discount Company (Limited).
MONCRIEF BURNS, Liverpool, Director Bagillt Zinc Smelting

Company (Limited).

B. BUCKLEY CHADWICK, Walton, Director East Long Rake Lead
Mining Company (Limited).

W. ARNOLD BRADLEY, Nannerch, North Wales.

SECRETARY-G. MILLWARD HINTON.

REGISTERED OFFICES.
GRANITE BUILDINGS, 6, STANLEY STREET, LIVERPOOL.

In commensing this issue of shares and debentures to the attention of the investing public, the board desire to point out the following facts:

The property, which is close to Conway, North Wales, is freehold, therefore subject to no rent or royalty, is proved to a depth of 300 ft., is in an advanced state of development, possesses ample machinery, plant, buildings, fixtures, tools, &c., and requires only a little further opening out to make enormous returns of the richest ore in the kingdom.

The mines have been inspected and reported favourably upon by some of the highest authorities in the world, amongst whom may be mentioned the names of Sir Andrew C. Ramsyy, the late President of the British Association, the Director-General of Geological Survey of the United Kingdom; and T. Faming Evans, Esq., late Her Majesty's Inspector of Mines in North Wales.

The mines are under the practical management of Mr. H. B. Vercoe, whose successful management of other mines has gained for him his great reputation. He reports as follows:

Conway Valley Freehold Copper Mines, 23rd May 1822.

Conway Valley Freehold Copper Mines, 23rd May, 1883.

Conway Valley Freehold Copper Mines, 23rd May, 1833.

TO THE DIRECTORS.

GENTLEMEN,—As requested I beg to hand you short special report, giving the latest particulars as to the mines.

In the 42 fm. level, the only change since my last is that the rib of orestoff on the footwall has enlarged. This I predicted would be the case as we approached towards the richer ore ground gone down in sele of 30 fm. level, and which has been continuously productive from the surface downward, through No. 2 sump and adjacent workings.

I hope you will at once place me in a position to develope the mine by the aid of rock-drills by making a contract with a rock-boring company. This is all the property needs to make it one of the best copper mines in Wales, and the necessary capital. I feel certain, will be cheerfully subscribed by the shareholders, as they have so lately seen the grand prospects their mine presents; and they will learn from this report that since then important improvements have again added to its value.—Yours truly,

Specimens of ore, &c., from the various workings may be seen at the offices of the company, where application forms may be obtained, with all other necessary information.

THE LEADHILLS SILVER-LEAD MINING AND SMELTING COMPANY (LIMITED).

Notice is hereby given, that the Directors have this day DECLARED a DIVIDEND of FOUR SHILLINGS per share, free of income tax, PAYABLE on and after Tuesday, the 12th June, to the shareholders now on the books of the company.

By Order. F. R. WILSON, Secretary.

By Order, F. R. WILSO 30, Finsbury-circus, London, E.C., 30th May, 1883. F. R. WILSON, Secretary.

THE CAPE COPPER MINING COMPANY
Notice is hereby given, that at a Meeting of the Directors of this
company, held to-day, it was resolved:

"That a DIVIDEND of TWENTY SHILLINGS per share, free of
income tax, be and is hereby DECLARED, PAYABLE on the 23rd
day of June, 1883, to the shareholders on the books of the company
on the 11th June, 1883; and that the Transfer Books be closed
during the said 11th June."

It was further resolved:

It was further resolved:—
"That a BONUS of TWENTY SHILLINGS per share, free of income tax, be and is hereby DECLARED, PAYABLE on the 23rd June, 1883, to the shareholders on the books of the company on the June, 1883, to the snareholders on the books of the company of 11th day of June."

By order of the Board,

J. C. LEAVER, Secretary.

6, Queen-street-place, London, 30th May, 1883.

STEPHEN BARKER, NICKEL AND NICKEL SILVER WORKS OOZELL STREET NORTH, BIRMINGHAM

WM. BREDEMEYER,

MINING, CONSULTING, AND CIVIL ENGINEER, 48, SECOND SOUTH STREET,

United States Mineral Surveyor for Utah and Idaho, Notary Public, Goological Examinations, Reports on Mining Properties; Surveys Mines, Railroads, and Canals, and Superintends the Workings of the same. Prepares Estimates and Plans for Opening and Working Mines. Expert on Mining Questions before the Courts.

Address, P. O. Box, 1157, Salt Lake City, Utah.

T. C. KITTO,
PRACTICAL GEOLOGIST AND MINING ENGINEER

Who has had great experience in the Gold Mines of Brazil, California, and Auttralia, having recently examined the Gold Fields of the TRANSVAAL, is prepared to furnish Reliable Reports as to their value.

All kinds of Mineral Deposits carefully examined and properly estimated Apply: LULWORTH HOUSE, GUNNERSBURY

FREDERIC F. CHISOLM,

CONSULTING MINING ENGINEER & FINANCIAL AGENT, OFFICE, 66, CHEESMAN BLOCK, DENVER, COLORAL

A Speciality made of care of Mining Property for non-resident Owners, and the General Management of Property for Foreign Mining Companies. REFERENCES FURNISHED IF DESIRED.

J. A. JONES, MINING ENGINEER,

GIJON (ASTURIAS), SPAIN. Mines inspected and reported on. Assays and valuations effected.

Has on hand offers of Mines of Copper, Calamine, Blende, Phosphate of Lime, Tin, Lead, Iron, Manganese, and Manganiferous Iron Ores.

ESTABLISHED 1888.

MESSRS. CUNLIFFE, ENTWISLE, AND CO, FINANCIALISTS, MINING AND CONSULTING ENGINEERS, MINERAL ASSAYERS, STOCK AND SHARE BROKERS, 17, BLOOMSBURY, OXFORD STREET; AND 2, UPPER BROOK STRUET MANCHESTER.

Bankers: Manchester and Oldham Bank (Limited), Pall Mall, Manchester.

NOBEL'S DYNAMITE



Manufactured and sold by NOBEL'S EXPLOSIVES COMPANY, (FORMERLY THE BRITISH DYNAMITE COMPANY LIMITED),

Head Office: 149, West George Street, Glasgow. EXPORT AGENTS: JAMES THORNE AND CO., 85, GRACECHURCH STREET, LONDON, E.C.

FACTORIES—ARDEER WORKS, STEVENSTON, AYRSHIRE.
WESTQUARTER WORKS, POLMONT STATION, STIRLINGSHIRE.
REDDING MOOR WORKS, POLMONT STATION, STIRLINGSHIRE.

Supplies may be obtained from any of the following District Agents of the Company in Great Britain:

KITCHIN and CO., 46, Lowther-street, Whitehaven.

WARDS, Forth House, Newcastle-on-Tyne.

TODHUNTER and ELLIOT, Market-place, Douglas, Isle of Man. HENRY KITCHIN and CO., 46, Lowther-street, Whitehaven. F. H. EDWARDS, Forth House, Newcastle-on-Tyne.

JAMES M. ARMSTRONG and CO., Middlesbro'-on-Tees. ALBERT RICKETTS, Dean-lane, Bedminster, Bristol.

B. READ, Reforne, Portland, Dorsetshire. LEIGH and SILLAVAN, Barton House, 88, Deansgate, Manchester. GEORGE ROBERTS George-street, Gloucester.

J. H. BEAN and CO. 6, Albion-street, Leeds.

WM. RICH and SONS, 4, Basset-street, Redruth, Cornwall.

CROSS BROTHERS, 21, Working-street, Cardiff.
WILLIAMS and WHITE, 6 and 7, Baker-street, Aberystwith.

WEBB and CO., Llanberis, Caernarvon. J. T. EACHUS, Holywell, Flintshire.

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BT

ROBERT HAMILTON, 29, St. James-square, Edinburgh. JOHN DONALD, 4, Belmont-street, Aberdeen. WILLIAM WATSON, Stirling-street, Coatbridge.
ROBERT HAMILTON, Douglas-street, Dunfermline
JOHN D. M'JANNET, Woodlands, Stirling. GEORGE STEPHEN and SON, Castle-street, Dundee, WAUGH, WALSH, and CO., 73 and 75, Church-lane, Belfast, CLOHERTY and SEMPLE, Merchants'-road, Galway. COOKE BROTHERS, 67, Patrick-street, Cork. SAMUEL BOYD, 46, Mary-street, Dublin. JOHN LEALE, St. Sampson's Bridge, North End, Guernsey.

THE COTTON POWDER COMPANY (LIMITED) RECOMMEND TO CONTRACTORS, MINERS, PIT SINKERS, QUARRYMEN, AND OTHERS, THEIR

TONITE, OR COTTON

AS BEING THE SAFEST, CHEAPEST, AND STRONGEST OF ALL EXPLOSIVES.

TONITE is the most efficient and economical blasting agent ever invented, and is largely in demand. It does not contain any Nitro-glycerine, and is, therefore, exempt from the dangers of exudation, or of freezing and its attendant process of thawing.

The Company also manufacture PATENT DETONATORS of a quality much superior to the foreign article. The trade supplied on favourable terms.

23, QUEEN ANNE'S GATE. LONDON. S.W. WORKS: FAVERSHAM, KENT.

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| and the same | 2.0 |
|--|-------------------|
| BRITISH DIVIDEND MINES. | |
| Shares, Paid, Last wk. Clos. pr. Total divs. | Per sh. Last ad |
| 3200 Plue Wille t c St Agnes 4 6 6 24 14 36 0 4 0 | 0 2 0May 1881 |
| 3200 Blue Hills t, c, St. Agnes | . 0 10 0Nov. 1881 |
| 4000 Craignant Bach,* L. Cardigan 5 0 0 C 5 0 | . 0 5 0Nov. 1882 |
| 4000 Craignant Bach, * /, Cardigan 5 0 0 — C 5 0 10240 Devon Gt. Consols, e, a, Tavistock * † 1 0 0 5 4 4½118 7 0 | |
| 4296 Dolcoath, c, t, Camborne | |
| 5400 East Pool, t, c, Illogan 0 9 9 44 421/2 45 35 3 6 | |
| 12000 Great Holway, I, Flintshire 5 0 U 514 514 514 0 5 0 | |
| 15000 Great Laxey, I, Isle of Man*1 4 C 0 171/2161/2 171/2 29 8 0 | |
| 6400 Green Hurth, I, Durham* 0 6 0 81/4 8 81/4 4 1 0 | |
| 20006 Grogwinion, l, Cardigan* 2 0 0 34 34 34 0 16 4 | |
| 9830 Gunntslake (Clitters), t, c 2 2 0 2 1 1/4 1 1/4 0 19 9 | |
| 2800 Isle of Man, I, Isle of Man* 25 0 0 83 5 0 | |
| 6000 Killifreth, t, Chacewater 4 3 6 31/4 21/4 31/8 0 10 0 | |
| 20000 Leadhills, J. Lanarkshire B 0 0 234 21/2 23/4 1 2 0 | |
| 430 Lieburne, L. Cardiganshire 18 15 0 | |
| 10000 Mellanear, c. Havle* 2 6 0 3½ 3 3½ 2 2 3 | |
| 9000 Minera Mining Co., l, Wrexham" 5 0 0 8 7 8 69 8 2 | 0 1 6Feb. 1883 |
| 20000 Mining Co. of Ireland, cl, c, l* 7 0 0 24 0 0 | |
| 11829 North Hendre, I, Wales 2 10 0 3 18 0 | |
| 8146 Ditto 1 5 0 — 0 11 3 | |
| 2000 North Levant, t, c, St. Just 13 6 0 21/4 2 21/4 4 16 0 | |
| 4760 Penhalls, t, St. Agness 4 0 0 36 58 3 17 0 | |
| 12000 Phænix United, t, c, Linkinhorne . 6 0 3 3 23 27 17 7 6 | |
| 12000 Roman Gravels, l, Salop* 7 10 0 81 8 81 9 11 0 | |
| 50:00 South Caradon, c, St. Oleer 0 10 0 % 34 1 | Jan. 1883 |
| 6123 South Condurrow, t, c, Cambornet 6 5 6 834 814 834 10 5 0 | |
| 9000 South Darren, 1, Cardigan* 1 16 0 13/16 11/16 13/16 3 4 0 | |
| 6000 Tineroft, c, t, Pool, Illogant 12 0 0 71/2 7 71/2 51 3 6 | |
| 5000 Van, l, Llanidloes* 4 5 0 6 6 61/2 25 13 0 | |
| 2000 West Holway, I, Flintshire 1 0 0 114 1 114 0 1 0 6000 West Rasset, c, Illogan 16 | |
| 6000 West Basset, c, Illogant | |
| 12000 Wheal Crebor, c, Tavistock | |
| 1024 Wheal Eliza Consols, t, St. Austell 18 0 0 4½ 4 4½ 54 10 0 | |
| 6000 Wheai Grenville, t, Camborne 15 0 0 6½ 5½ 6 1 12 6 | |
| 4295 Wheal Kitty, t, St. Agnes 5 12 0 2 1½ 1¼ 12 18 6 | |
| 2000 Wheal Peevor, t, Redruth 9 1 0 4 3½ 4½ 8 13 6 | |
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| FOREIGN DIVIDEND MINES | |
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| | FOREIGN DIVIDEND MINES |
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| 64800 | Yorke Pen., c, South Aust. Pref. f 1 0 0 1½ 7½ 1½ 0 3 0 0 3 0 May 1832 § Have made calls since last dividend was paid. |
| | , and made catts since tast dividend was paid. |
| | NON-DIVIDEND FOREIGN MINES: FOREIG |

| | NON-DIVIDEND BRITISH MINES. | |
|---|---|---|
| | Shares. Paid. Last wk, Clos pr. 25000 Aberduna,* I, Denbigh | l |
| | 30000 Alston United, 4, Cumberland 1 0 0 | l |
| | 12000 Anderton, t, c, t, Devonshire 1 0 0 114 1 114 | l |
| | 12000 Assheton, l, Carnarvonshire* 5 0 0 12000 Bedford Unit., c, Tavis. (£1 liab.) 0 14 0 1½ 1½ 1½ | ı |
| i | 30000 Bodderis, * l, bl., Denbighshire 1 0 0 | l |
| ı | 10000 Brada, * I, Isle of Man | l |
| Ì | 30000 British,* s-l, bl, Wrexham | l |
| ı | 2000 Bwich United, 4, Cardigan 1 0 0 74 72 74 | l |
| 1 | 12000 Collacombe Consols, c, bl, Lamerton 0 2 6 5/16 3/16 | l |
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| ł | 2450 Cook's Kitchen, t, Illogant | |
| ł | 30000 Creiglog, 4 l, bl, Denbighshire 0 17 0 36 1/ 36 | |
| I | 6400 Crook Burn,* 1, Cumberland 0 17 0 36 36 15 | ı |
| 1 | 45000 D'Eresby Mountain, I, bl, Llanrwst. 0 10 0 34 14 34 | ı |
| 1 | 12000 Derwent,* l, Durham 4 0 0 1¼ i 1¼ 60000 Devon Friendship,* c, ars, Tavistock 1 0 0 8s ¼ ¾ 34 | |
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| 1 | 50000 Drakewalls,* t, c Oalstock | |
| 1 | 6000 East Botallack, t. St. Just 0 16 0 154 134 154 | |
| ł | 6144 East Caradon, c, St. Cleer J | |
| ١ | 6144 East Caradon, c, St. Cleer I | |
| I | 30000 E. Craven Moor, ** l. Pateley Bridge 1 0 0 56 14 56 15000 East Devon Cons., ** c. Buckfastigh. 2 0 0 214 21/6 21/4 | |
| l | 30000 East Herodstoot, s-l, Liskeard 1 0 0 1½, 12½ 2½ 30000 East Herodstoot, s-l, Liskeard 1 0 0 1½, 1 1½ 1 1½ 25500 East Roman Gravels, *l, Salop 1 0 3 55 ½ 5\$ | |
| I | 25500 East Roman Gravels, * I, Salop 1 0 3 58 14 58 | |
| l | 100 East Tregembo, t, c, Marazion 5 0 0 150 125 150 18000 East Van, t, Liar, idloes 5 0 0 | 4 |
| l | 18000 East Van, f, Liar-Idioes 5 0 0 2048 East Wheal Lovell, f, Helston 17 8 6 1 11½c.p. 100000 East Wheal Rose,* s-i, Newlyn East 1 0 0 1½ ½ 1½ | |
| l | 100000 East Wheal Rose, * s-l, Newlyn East 1 0 0 11 11 11/2.p. | |
| l | 12500 Frongoch,* \$\langle l \text{Cardgn}(11000 \text{ sh. iss.}) \ 2 \ 0 \ 0 \ 0 \ 36 \ \frac{34}{36} \ 36 \ 4000 \text{ Glass, Car,e*}[30000sh. \varepsilon l \text{ pd.,} 10000 \text{ lss. pd.}] \ \frac{3}{3} \ \frac{3}{3} \ \frac{3}{3} \ \text{ lss.} \ \ | 1 |
| l | 12000 Gawton, c, Tavistock 2 0 0 36 4 36 40000 Glasg. Car., c*[30000sh. £1 pd., 10000 15s. pd.] | |
| l | 30000 Gobbett,* t, Devon | |
| ĺ | 10000 Goddards, * I. b. Carnarvon | |
| l | 32000 Goginan, **, Cardiganshire | |
| l | 8500 Gorsedd and Merllyn Con., i, Flint. 2 10 0 3 2½ 3 20000 Great Dyliffe* (10000 sh. issued) 1 0 0 — | |
| l | 6000 Great West Chiverton, I, St. Agnes. 0 5 0 36 14 36 6000 Great Wheal Worthy, t, Cornwall 1 0 0 34 16 34 | |
| | 6000 Great West Chiverton, I, St. Agnes. 0 5 0 34 34 36 6000 Great Wheal Worthy. 4 Cornwall. 1 0 0 34 14 34 10000 Gwern-y-Mynydd, **-i, Flint(pref.) 4 0 0 1 35 1 | |
| l | 70000 Gwydyr Amal.* l, bl, Carnarvon 1 0 0 | |
| l | 12000 Herodsfoot, <i>l</i> , near Liskeard† | |
| | 20000 Kirkinichael,* I (2000 unissued) 1 0 0 — | |
| | 25000 Kit Hill Gt. Cons. *c, ars-m, (2l. sh.) 0 17 6 56 36 56 15000 Lady Ann, *s-l, Llanarmon | |
| - | 25000 Langford, s, c, Callington 0 10 0 1/2 36 1/2 | |
| ı | 15000 Llandegla,* 1, Wales | |
| l | 9000 Marke Valley, c, Linkinhorne; 7 7 0 1 % 11/2 | |
| ı | 8000 Medlyn Moor, t, Wendron 3 15 10 — 8000 Mona, c, Anglesea 5 0 0 4½ 4 4½ | |
| ı | 8000 Mona, *c, Anglesea | |
| | 15000 Monkstown, * man, Devon | |
| | 13000 Monsatown, main, Devoin 2000 Morta Du, z, g, z, Anglesea" 100. 44 44 54 12000 Morta Du, z, g, z, Anglesea" 100. 56 34 55 | |
| | 80000 Mounts Bay, *c, t, Breage | |
| ١ | 6144 Mount Carbis, t, c, Redruth | |
| | 2400 New Cook's Kitchen, t, Illogan 9 10 0 5½ 4½ 5½ | |
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| | 10000 New Holmbush, * t, c, Callington 3 0 0 6000 New Kitty, t, St. Agnes 0 18 0 2½ 134 2½ | |
| | 6000 New Kitty, t, St. Agnes | |
| | 17500 New Terras,* t, St. Austell 2 0 0 21/4 2 21/4 | |
| | 3500 New Tincroft, * t, Lelant | |
| | 8 1000 New Van Cons. & Glyn, 2, | |
| | 12000 New West Caradon, c, Liskeard 0 4 6 36 34 35 3000 New Wheal Peevor, t, Redruth 0 10 0 | |
| | 35000 New Wye Valley, l, Montgomery.* 1 0 0 1 ½ 1 | ١ |
| | 12000 North Blue Hills, t, St. Agnes | |
| | 10000 N. D'Eresby Mount, " l, bl, Carnary. 1 0 0 | |
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| | NON-DIVIDEND MINES- | con | tinu | ad. |
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| 172 | 1 23000 North Grogwinion," s-l. Cardigaba | 1 0 | 0 | st wk. Clos p. 36 36 |
| 114 | | 0 13 | 6 | 36 36 |
| | 50000 North Molton,* c, mn, t, Devon 6000 North Penstruthal, t, c, Gwennap 2936 North Treskerby, c, St. Agnes | 1 0 | 0 | |
| 136 | 2936 North Treskerby, c, St. Agnes | 1 0 | 0 | |
| | book Moleneth, ., Dutham | 8 17 | | *** |
| 3/4 | \$0000 Old Shepherds *-1. Cornwall | 1 0 | | - |
| 74 | 60000 Owen Vean & Tregur., * t,c, Marazion | 0 | | . 1/8 3/6 . |
| 3/4 | 12000 Pandora,* l, Carnaryon | 2 0 | | 1414 1 |
| 3/10 | 45000 Parys Corporation, c, Anglesea | 0 | 0 | 1 ½ ½ 1 ½ ½ 1 6 3 4 8 |
| 134 | 7500 Pateley Bridge, I, Yorkshire | 0 | V | T3. |
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| | II black a comment of the comment of | - | 2111 | 78 1/10 1/8 |

bl, blende; c, copper; g, gold; l, lend; s, silver; sl, slate s-i, silver-lead; t, tin; z, zinc; i, iron; a, arsenic.
*Limited Liability Companies; † quoted on the Stock Exchan
I have paid dividends.

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